

BEST AVAILABLE COPY

分 冊

Separate Volume

出願番号 特願2003-102206

[S.T.10/C] : [JP2003-102206]

分冊番号 7/9

CERTIFIED COPY OF
PRIORITY DOCUMENT

出証番号 出証特2004-3059660

Lys Arg Ile Leu Arg Lys Leu Glu Leu Glu Ala Tyr Ala Gly Val Ile
 20 25 30
 Ser Ala Leu Arg Ala Gln Gly Asp Leu Thr Lys Glu Lys Lys Asp Leu
 35 40 45
 Leu Gly Glu Leu Ser Lys Val Leu Ser Ile Ser Thr Glu Arg His Arg
 50 55 60
 Ala Glu Val Arg Arg Ala Val Asn Asp Glu Arg Leu Thr Thr Ile Ala
 65 70 75 80
 His Asn Met Ser Gly Pro Asn Ser Ser Ser Glu Trp Ser Ile Glu Gly
 85 90 95
 Arg Arg Leu Val Pro Leu Met Pro Arg Leu Val Pro Gln Thr Ala Phe
 100 105 110
 Thr Val Thr Ala Asn Ala Val Ala Asn Ala Ala Ile Gln His Asn Ala
 115 120 125
 Ser Leu Pro Val Pro Ala Glu Thr Gly Ser Lys Glu Val Val Val Cys
 130 135 140
 Tyr Ser Tyr Thr Ser Thr Thr Ser Thr Pro Thr Ser Thr Pro Val Pro
 145 150 155 160
 Ser Gly Ser Ile Ala Thr Val Lys Ser Pro Arg Pro Ala Ser Pro Ala
 165 170 175
 Ser Asn Val Val Val Leu Pro Ser Gly Ser Thr Val Tyr Val Lys Ser
 180 185 190
 Val Ser Cys Ser Asp Glu Asp Glu Lys Pro Arg Lys Arg Arg Arg Thr
 195 200 205
 Asn Ser Ser Ser Ser Ser Pro Val Val Leu Lys Glu Val Pro Lys Ala
 210 215 220
 Val Val Pro Val Ser Lys Thr Ile Thr Val Pro Val Ser Gly Ser Pro
 225 230 235 240
 Lys Met Ser Asn Ile Met Gln Ser Ile Ala Asn Ser Leu Pro Pro His

245	250	255
Met Ser Pro Val Lys Ile Ser Phe Thr Lys Pro Ser Thr Gln Thr Thr		
260	265	270
Asn Thr Thr Thr Gln Lys Val Ile Ile Val Thr Thr Ser Pro Ser Ser		
275	280	285
Thr Phe Val Pro Asn Ile Leu Ser Lys Ser His Asn Tyr Ala Ala Val		
290	295	300
Thr Lys Leu Val Pro Thr Ser Val Ile Ala Ser Thr Thr Gln Lys Pro		
305	310	315
Pro Val Val Ile Thr Ala Ser Gln Ser Ser Leu Val Ser Asn Ser Ser		
325	330	335
Ser Gly Ser Ser Ser Ser Thr Pro Ser Pro Ile Pro Asn Thr Val Ala		
340	345	350
Val Thr Ala Val Val Ser Ser Thr Pro Ser Val Val Met Ser Thr Val		
355	360	365
Ala Gln Gly Val Lys Ile Ile Thr Gln Gln Val Gln Pro Ser Lys Ile		
370	375	380
Leu Pro Lys Pro Val Thr Ala Thr Leu Pro Thr Ser Ser Asn Ser Pro		
385	390	395
Ile Met Val Val Ser Ser Asn Gly Ala Ile Met Thr Thr Lys Leu Val		
405	410	415
Thr Thr Pro Thr Gly Thr Gln Ala Thr Tyr Thr Arg Pro Thr Val Ser		
420	425	430
Pro Ser Ile Gly Arg Met Ala Ala Thr Pro Gly Ala Ala Thr Tyr Val		
435	440	445
Lys Thr Thr Ser Gly Ser Ile Ile Thr Val Val Pro Lys Ser Leu Ala		
450	455	460
Thr Leu Gly Gly Lys Ile Ile Ser Ser Asn Ile Val Ser Gly Thr Thr		
465	470	475
		480

Thr Lys Ile Thr Thr Ile Pro Met Thr Ser Lys Pro Asn Val Ile Val			
485	490	495	
Val Gln Lys Thr Thr Gly Lys Gly Thr Thr Ile Gln Gly Leu Pro Gly			
500	505	510	
Lys Asn Val Val Thr Thr Leu Leu Asn Ala Gly Gly Glu Lys Thr Ile			
515	520	525	
Gln Thr Val Pro Thr Gly Ala Lys Pro Ala Ile Leu Thr Ala Thr Arg			
530	535	540	
Pro Ile Thr Lys Met Ile Val Thr Gln Pro Lys Gly Ile Gly Ser Thr			
545	550	555	560
Val Gln Pro Ala Ala Lys Ile Ile Pro Thr Lys Ile Val Tyr Gly Gln			
565	570	575	
Gln Gly Lys Thr Gln Val Leu Ile Lys Pro Lys Pro Val Thr Phe Gln			
580	585	590	
Ala Thr Val Val Ser Glu Gln Thr Arg Gln Leu Val Thr Glu Thr Leu			
595	600	605	
Gln Gln Ala Ser Arg Val Ala Glu Ala Gly Asn Ser Ser Ile Gln Glu			
610	615	620	
Gly Lys Glu Glu Pro Gln Asn Tyr Thr Asp Ser Ser Tyr Ser Ser Thr			
625	630	635	640
Glu Ser Ser Arg Ser Ser Gln Asp Ser Gln Pro Val Val His Val Ile			
645	650	655	
Ala Ser Arg Arg Gln Asp Trp Ser Glu His Glu Ile Ala Met Glu Thr			
660	665	670	
Ser Pro Thr Ile Ile Tyr Gln Asp Val Ser Ser Glu Ser Gln Ser Ala			
675	680	685	
Thr Ser Thr Ile Lys Ala Leu Leu Glu Leu Gln Gln Thr Thr Val Lys			
690	695	700	
Glu Lys Leu Glu Ser Lys Pro Arg Gln Pro Thr Ile Asp Leu Ser Gln			

705 710 715 720
Met Ala Val Pro Ile Gln Met Thr Gln Glu Lys Arg His Ser Pro Glu
 725 730 735
Ser Pro Ser Ile Ala Val Val Glu Ser Glu Leu Val Ala Glu Tyr Ile
 740 745 750
Thr Thr Val Ser His Arg Ser Gln Pro Gln Gln Pro Ser Gln Pro Gln
 755 760 765
Arg Thr Leu Leu Gln His Val Ala Gln Ser Gln Thr Ala Thr Gln Thr
 770 775 780
Ser Val Val Val Lys Ser Ile Pro Ala Ser Ser Pro Gly Ala Ile Thr
785 790 795 800
His Ile Met Gln Gln Ala Leu Ser Ser His Thr Ala Phe Thr Lys His
 805 810 815
Ser Glu Glu Leu Gly Thr Glu Glu Gly Glu Val Glu Glu Met Asp Thr
 820 825 830
Leu Asp Pro Gln Thr Gly Leu Phe Tyr Arg Ser Ala Leu Thr Gln Ser
 835 840 845
Gln Ser Ala Lys Gln Gln Lys Leu Ser Gln Pro Pro Leu Glu Gln Thr
 850 855 860
Gln Leu Gln Val Lys Thr Leu Gln Cys Phe Gln Thr Lys Gln Lys Gln
865 870 875 880
Thr Ile His Leu Gln Ala Asp Gln Leu Gln His Lys Leu Pro Gln Met
 885 890 895
Pro Gln Leu Ser Ile Arg His Gln Lys Leu Thr Pro Leu Gln Gln Glu
 900 905 910
Gln Ala Gln Pro Lys Pro Asp Val Gln His Thr Gln His Pro Met Val
 915 920 925
Ala Lys Asp Arg Gln Leu Pro Thr Leu Met Ala Gln Pro Pro Gln Thr
 930 935 940

Val Val Gln Val Leu Ala Val Lys Thr Thr Gln Gln Leu Pro Lys Leu
945 950 955 960
Gln Gln Ala Pro Asn Gln Pro Lys Ile Tyr Val Gln Pro Gln Thr Pro
965 970 975
Gln Ser Gln Met Ser Leu Pro Ala Ser Ser Glu Lys Gln Thr Ala Ser
980 985 990
Gln Val Glu Gln Pro Ile Ile Thr Gln Gly Ser Ser Val Thr Lys Ile
995 1000 1005
Thr Phe Glu Gly Arg Gln Pro Pro Thr Val Thr Lys Ile Thr Gly Gly
1010 1015 1020
Ser Ser Val Pro Lys Leu Thr Ser Pro Val Thr Ser Ile Ser Pro Ile
1025 1030 1035 1040
Gln Ala Ser Glu Lys Thr Ala Val Ser Asp Ile Leu Lys Met Ser Leu
1045 1050 1055
Met Glu Ala Gln Ile Asp Thr Asn Val Glu His Met Ile Val Asp Pro
1060 1065 1070
Pro Lys Lys Ala Leu Ala Thr Ser Met Leu Thr Gly Glu Ala Gly Ser
1075 1080 1085
Leu Pro Ser Thr His Met Val Val Ala Gly Met Ala Asn Ser Thr Pro
1090 1095 1100
Gln Gln Gln Lys Cys Arg Glu Ser Cys Ser Ser Pro Ser Thr Val Gly
1105 1110 1115 1120
Ser Ser Leu Thr Thr Arg Lys Ile Asp Pro Pro Ala Val Pro Ala Thr
1125 1130 1135
Gly Gln Phe Met Arg Ile Gln Asn Val Gly Gln Lys Lys Ala Glu Glu
1140 1145 1150
Ser Pro Ala Glu Ile Ile Ile Gln Ala Ile Pro Gln Tyr Ala Ile Pro
1155 1160 1165
Cys His Ser Ser Ser Asn Val Val Val Glu Pro Ser Gly Leu Leu Glu

1170	1175	1180
Leu Asn Asn Phe Thr Ser Gln Gln Leu Asp Asp Glu Glu Thr Ala Met		
1185	1190	1195
Glu Gln Asp Ile Asp Ser Ser Thr Glu Asp Gly Thr Glu Pro Ser Pro		
	1205	1210
Ser Gln Ser Ser Ala Glu Arg Ser		1215
	1220	

<210> 2923

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2923

Met Glu Arg Arg Trp Leu Ser Leu Arg Ser Ser Ser Cys Ser Ala Pro		
1	5	10
Arg Leu Asn Thr Ala Trp Gly Met Arg Ser Ser Pro Gln Ala Thr Ser		
	20	25
Ser Ser Ser Arg Asn Ala Ala Ser Phe Leu Arg Leu Phe Arg Ala Thr		30
	35	40
Arg Arg Ala Pro Ser Leu Cys Arg Leu Ser Leu Cys Arg Trp Pro Ala		45
	50	55
Thr Ser Val Thr Leu Ala Gly Thr Phe Pro Ala Leu Leu Arg Arg Asp		60
	65	70
Asn Thr Leu Ser Cys Phe Ser Ser Arg Arg Leu Ser Arg Val Ala Ala		75
	80	85
Arg Ala Ser Ser Trp Gly Lys Ser Pro Ser Arg Cys Ser Ser Ser Lys		90
	95	100
		105
		110

Pro Arg Ser Pro Asn Thr Gln Ser Gly Thr Ser Arg Ser Ser Ser His
 115 120 125
 Leu Thr Arg Ile Thr Phe Arg Trp Ser Arg Arg Lys Thr Cys Lys Glu
 130 135 140
 Lys Gly Ser Leu Ala Gly Glu Trp Ser Lys Leu Ser Ser Cys Lys Cys
 145 150 155 160
 Thr Ser Cys Asp Ser Pro Gly Gly Lys Val Ile Ser Gln Met Ala Ser
 165 170 175
 Ser Leu Ser Asp Ser Thr Ser Leu Ser Ser Lys Thr Val Ser Gly Arg
 180 185 190
 Pro Gly Ser Met Gln Arg Ala Ser Ser Ser Arg Pro Ala Ala Leu Arg
 195 200 205
 Cys Ser Phe Ser Arg Ser Phe Ser Gly Val His Ser Trp Leu Arg Leu
 210 215 220
 Ser Cys Phe Arg Arg Leu Ser Leu Thr Ser Asp Arg Lys Thr Ala Lys
 225 230 235 240
 Arg Leu Glu

<210> 2924

<211> 944

<212> PRT

<213> Homo sapiens

<400> 2924

Met Pro Leu Ala Gly Met Ser Leu Gly Ser Leu Lys Ser Glu Phe Val
 1 5 10 15
 Pro Ser Thr Ser Thr Lys Gln Gln Gly Pro Gln Pro Thr Leu Ser Val

20	25	30
Gly Gln Glu Ser Ser Ser Pro Glu Asp His Val Cys Leu Leu Asp Cys		
35	40	45
Val Val Val Asp Leu Gln Asp Met Asp Ile Phe Ala Ala Glu Arg His		
50	55	60
Pro Arg Glu Tyr Ser Lys Ala Pro Glu Asp Ser Ser Gly Asp Leu Ile		
65	70	75
Phe Pro Ser Tyr Phe Val Arg Gln Thr Gly Gly Ser Leu Leu Thr Glu		
85	90	95
Pro Cys Arg Leu Lys Leu Gln Val Glu Arg Asn Leu Asp Lys Glu Ile		
100	105	110
Ser His Thr Val Pro Asp Ile Ser Ile His Gly Asn Leu Ser Ser Val		
115	120	125
His Cys Ser Leu Asp Leu Tyr Lys Tyr Lys Leu Ile Arg Gly Leu Leu		
130	135	140
Glu Asn Asn Leu Gly Glu Pro Ile Glu Glu Phe Met Arg Pro Tyr Asp		
145	150	155
Leu Gln Asp Pro Arg Ile His Thr Val Leu Ser Gly Glu Val Tyr Thr		
165	170	175
Cys Met Cys Phe Leu Ile Asp Met Val Asn Val Ser Leu Glu Leu Lys		
180	185	190
Asp Pro Lys Arg Lys Glu Gly Ala Gly Ser Leu Ala Arg Phe Asp Phe		
195	200	205
Lys Lys Cys Lys Leu Leu Tyr Glu Ser Phe Ser Asn Gln Thr Lys Ser		
210	215	220
Ile Asn Leu Val Ser His Ser Met Met Ala Phe Asp Thr Arg Tyr Ala		
225	230	235
Gly Gln Lys Thr Ser Pro Gly Met Thr Asn Val Phe Ser Cys Ile Phe		
245	250	255

Gln Pro Ala Lys Asn Ser Ser Thr Thr Gln Gly Ser Ile Gln Ile Glu
260 265 270
Leu His Phe Arg Ser Thr Lys Asp Ser Ser Cys Phe Thr Val Val Leu
275 280 285
Asn Asn Leu Arg Val Phe Leu Ile Phe Asp Trp Leu Leu Leu Val His
290 295 300
Asp Phe Leu His Thr Pro Ser Asp Ile Lys Lys Gln Asn His Val Thr
305 310 315 320
Pro Ser Arg His Arg Asn Ser Ser Ser Glu Ser Ala Ile Val Pro Lys
325 330 335
Thr Val Lys Ser Gly Val Val Thr Lys Arg Ser Ser Leu Pro Val Ser
340 345 350
Asn Glu Arg His Leu Glu Val Lys Val Asn Val Thr Gly Thr Glu Phe
355 360 365
Val Val Ile Glu Asp Val Ser Cys Phe Asp Thr Asn Ala Ile Ile Leu
370 375 380
Lys Gly Thr Thr Val Leu Thr Tyr Lys Pro Arg Phe Val Asp Arg Pro
385 390 395 400
Phe Ser Gly Ser Leu Phe Gly Ile Glu Val Phe Ser Cys Arg Leu Gly
405 410 415
Asn Glu His Asp Thr Ala Leu Ser Ile Val Asp Pro Val Gln Ile Gln
420 425 430
Met Glu Leu Val Gly Asn Ser Ser Tyr Gln Asn Ser Ser Gly Leu Met
435 440 445
Asp Ala Phe Asn Ser Glu Asp Phe Pro Pro Val Leu Glu Ile Gln Leu
450 455 460
Gln Ala Leu Asp Ile Arg Leu Ser Tyr Asn Asp Val Gln Leu Phe Leu
465 470 475 480
Ala Ile Ala Lys Ser Ile Pro Glu Gln Ala Asn Ala Ala Val Pro Asp

485	490	495
Ser Val Ala Leu Glu Ser Asp Ser Val Gly Thr Tyr Leu Pro Gly Ala		
500	505	510
Ser Arg Val Gly Glu Glu Ile Arg Glu Gly Thr Arg His Thr Leu Asp		
515	520	525
Pro Val Leu Glu Leu Gln Leu Ala Arg Leu Gln Glu Leu Gly Phe Ser		
530	535	540
Met Asp Asp Cys Arg Lys Ala Leu Leu Ala Cys Gln Gly Gln Leu Lys		
545	550	555
Lys Ala Ala Ser Trp Leu Phe Lys Asn Ala Glu Pro Leu Lys Ser Leu		
565	570	575
Ser Leu Ala Ser Thr Ser Arg Asp Ser Pro Gly Ala Val Ala Ala Pro		
580	585	590
Leu Ile Ser Gly Val Glu Ile Lys Ala Glu Ser Val Cys Ile Cys Phe		
595	600	605
Ile Asp Asp Cys Met Asp Cys Asp Val Pro Leu Ala Glu Leu Thr Phe		
610	615	620
Ser Arg Leu Asn Phe Leu Gln Arg Val Arg Thr Ser Pro Glu Gly Tyr		
625	630	635
Ala His Phe Thr Leu Ser Gly Asp Tyr Tyr Asn Arg Ala Leu Ser Gly		
645	650	655
Trp Glu Pro Phe Ile Glu Pro Trp Pro Cys Ser Val Ser Trp Gln Gln		
660	665	670
Gln Ala Ala Ser Arg Leu His Pro Pro Arg Leu Lys Leu Glu Ala Lys		
675	680	685
Ala Lys Pro Arg Leu Asp Ile Asn Ile Thr Ser Val Leu Ile Asp Gln		
690	695	700
Tyr Val Ser Thr Lys Glu Ser Trp Met Ala Asp Tyr Cys Lys Asp Asp		
705	710	715
		720

Lys Asp Ile Glu Ser Ala Lys Ser Glu Asp Trp Met Gly Ser Ser Val
725 730 735
Asp Pro Pro Cys Phe Gly Gln Thr Glu Val Lys Thr Pro Lys Arg Arg
740 745 750
Gln Pro Phe Val Pro Phe Ala Leu Arg Asn His Thr Gly Cys Thr Leu
755 760 765
Trp Phe Ala Thr Leu Thr Thr Thr Pro Thr Arg Ala Ala Leu Ser His
770 775 780
Ser Gly Ser Pro Gly Val Val Pro Glu Gly Asn Gly Thr Phe Leu Asp
785 790 795 800
Asp Thr His Asn Val Ser Glu Trp Arg Glu Val Leu Thr Gly Glu Glu
805 810 815
Ile Pro Phe Glu Phe Glu Ala Arg Gly Lys Leu Arg His Arg His Thr
820 825 830
His Asp Leu Arg Ile His Gln Leu Gln Val Arg Val Asn Gly Trp Glu
835 840 845
Gln Val Ser Pro Val Ser Val Asp Lys Val Gly Thr Phe Phe Arg Tyr
850 855 860
Ala Ala Pro Asp Lys Asn Ser Ser Ser Ser Thr Ile Gly Ser Pro Ser
865 870 875 880
Ser Arg Thr Asn Ile Ile His Pro Gln Val Tyr Phe Ser Ser Leu Pro
885 890 895
Pro Val Arg Val Val Phe Ala Val Thr Met Glu Gly Ser Ala Arg Lys
900 905 910
Val Ile Thr Val Arg Ser Ala Leu Ile Val Arg Asn Arg Leu Glu Thr
915 920 925
Pro Met Glu Leu Arg Leu Asp Ser Pro Ser Ala Pro Asp Ser Met Phe
930 935 940

<210> 2925

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2925

Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu

1 5 10 15

Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr

20 25 30

Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val

35 40 45

Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg

50 55 60

Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala

65 70 75 80

Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys

85 90 95

Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro

100 105 110

Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly

115 120 125

Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn

130 135 140

Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu

145 150 155 160

Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp

165 170 175

Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser
 180 185 190
 Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala Gln Asp Phe Cys
 195 200 205
 Gln Leu Val Ala Gln Lys Gln Lys Arg Pro Thr Asp Leu Asp Val Asp
 210 215 220
 Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro Asp Pro Asp Leu
 225 230 235 240
 Val Leu Lys Phe Gly Pro Val Asp Ser Thr Leu Gly Phe Leu Pro Trp
 245 250 255
 His Ile Arg Leu Thr Glu Thr Val Ser Leu Pro Ser His Leu Asn Ile
 260 265 270
 Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr Ala Ala Cys Glu
 275 280 285
 Gln Arg Leu Gly Lys
 290

<210> 2926

<211> 286

<212> PRT

<213> Homo sapiens

<400> 2926

Met Pro Cys Gly Thr Val Val Thr Thr Val Thr Ala Val Lys Thr Lys
 1 5 10 15
 Pro Arg Val Asp Val Gly Arg Ala Ser Pro Leu Ser Ser Asp Ser Pro
 20 25 30
 Val Lys Thr Pro Ile Lys Val Lys Val Ile Glu Lys Asp Ile Ser Val

35	40	45
Gln Ala Ile Ala Cys Arg Ser Ala Pro Val Ser Lys Thr Leu Ser Ser		
50	55	60
Ser Asp Thr Glu Leu Leu Val Leu Asn Gly Ser Asp Pro Val Ala Glu		
65	70	75
Val Ala Ile Arg Gln Leu Ser Glu Ser Ser Lys Leu Lys Leu Lys Ser		
85	90	95
Pro Arg Lys Lys Ser Thr Ile Ile Ile Ser Gly Ile Ser Lys Thr Ser		
100	105	110
Leu Ser Gln Asp His Asp Ala Ala Leu Met Gln Gly Tyr Thr Ala Ser		
115	120	125
Val Asp Ser Thr His Gln Glu Asp Ala Pro Ser His Pro Glu Arg Ala		
130	135	140
Ala Ala Ser Ala Pro Pro Glu Glu Ala Glu Ser Ala Gln Ala Ser Leu		
145	150	155
Ala Pro Lys Pro Gln Glu Asp Glu Leu Asp Ser Trp Asp Leu Glu Lys		
165	170	175
Glu Pro Gln Ala Ala Ala Trp Ser Ser Gln Val Leu Leu Asp Pro Asp		
180	185	190
Gly Asp Glu Leu Ser Glu Ser Ser Met Ser Val Leu Glu Pro Gly Thr		
195	200	205
Ala Lys Lys His Lys Gly Gly Ile Leu Arg Lys Gly Ala Lys Leu Phe		
210	215	220
Phe Arg Arg Arg His Gln Gln Lys Asp Pro Gly Met Ser Gln Ser His		
225	230	235
Asn Asp Leu Val Phe Leu Glu Gln Pro Glu Gly Ser Arg Arg Lys Gly		
245	250	255
Ile Thr Leu Thr Arg Thr Leu Asn Lys Lys Leu Leu Ser Arg His Arg		
260	265	270

Asn Lys Asn Thr Met Asn Gly Ala Pro Val Glu Pro Cys Thr
 275 280 285

<210> 2927

<211> 272

<212> PRT

<213> Homo sapiens

<400> 2927

Met Phe Glu Asn Leu Asn Thr Ala Leu Thr Pro Lys Leu Gln Ala Ser
 1 5 10 15
 Arg Ser Phe Pro His Leu Ser Lys Pro Val Ala Pro Gly Ser Ala Pro
 20 25 30
 Leu Gly Ser Gly Glu Pro Gly Gly Pro Gly Leu Trp Val Gly Ser Ser
 35 40 45
 Gln His Leu Lys Asn Leu Gly Lys Ala Met Gly Ala Lys Val Asn Asp
 50 55 60
 Phe Leu Arg Arg Lys Glu Pro Ser Ser Leu Gly Ser Val Gly Val Thr
 65 70 75 80
 Glu Ile Asn Lys Thr Ala Gly Ala Gln Leu Ala Ser Gly Thr Asp Ala
 85 90 95
 Ala Pro Glu Ala Trp Leu Glu Asp Glu Arg Ser Val Leu Gln Glu Thr
 100 105 110
 Phe Pro Arg Leu Asp Pro Pro Pro Pro Ile Thr Arg Lys Arg Thr Pro
 115 120 125
 Arg Ala Leu Lys Thr Thr Gln Asp Met Leu Ile Ser Ser Gln Pro Val
 130 135 140
 Leu Ser Ser Leu Glu Tyr Gly Thr Glu Pro Ser Pro Gly Gln Ala Gln

145	150	155	160
Asp Ser Ala Pro Thr Ala Gln Pro Asp Val Pro Ala Asp Ala Ser Gln			
	165	170	175
Pro Glu Ala Thr Met Glu Arg Glu Glu Arg Gly Lys Val Leu Pro Asn			
	180	185	190
Gly Glu Val Ser Leu Ser Val Pro Asp Leu Ile His Lys Asp Ser Gln			
	195	200	205
Asp Glu Ser Lys Leu Lys Met Thr Glu Cys Arg Arg Ala Ser Ser Pro			
	210	215	220
Ser Leu Ile Glu Arg Asn Gly Phe Lys Leu Ser Leu Ser Pro Ile Ser			
	225	230	235
Leu Ala Glu Ser Trp Glu Asp Gly Ser Pro Pro Pro Gln Ala Arg Thr			
	245	250	255
Ser Ser Leu Asp Asn Glu Gly Pro His Pro Asp Leu Leu Ser Phe Glu			
	260	265	270

<210> 2928

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2928

Met Leu Pro Arg Leu Val Ser Asn Ser Trp Pro Gln Ser Asp Pro Pro			
1	5	10	15
Ala Trp Ala Phe Gln Ser Ala Gly Ile Thr Gly Val Ser Cys Arg Ala			
	20	25	30
Arg Pro Gln Leu Phe Leu Val Asn Pro Phe Leu Ser Pro Arg Val Leu			
	35	40	45

Ala Leu Thr Leu His Ser Arg Phe Ile Gly Ala Cys Ser Lys Pro Gly
 50 55 60
 Ala Gly Asp Glu Glu Glu Lys Asp Pro Ser Tyr Pro Ser Ile Gly Phe
 65 70 75 80
 Phe Trp Lys Gly Gly Arg Asn Ala Asp Leu Thr Leu Tyr Phe Thr Val
 85 90 95
 Ile Cys Asp Leu Cys Tyr Gly Arg Gly Lys His Ser Ala Trp Glu Gln
 100 105 110
 Gly Asp Val Ala Ser Ser Pro Gly Ser Gly Arg Gln Gly Thr Val Lys
 115 120 125
 Ala

<210> 2929

<211> 553

<212> PRT

<213> Homo sapiens

<400> 2929

Met Asn Lys Asn Thr Ser Thr Val Val Ser Pro Ser Leu Leu Glu Lys
 1 5 10 15
 Asp Pro Ala Phe Gln Met Ile Thr Ile Ala Lys Glu Thr Gly Leu Gly
 20 25 30
 Leu Lys Val Leu Gly Gly Ile Asn Arg Asn Glu Gly Pro Leu Val Tyr
 35 40 45
 Ile Gln Glu Ile Ile Pro Gly Gly Asp Cys Tyr Lys Asp Gly Arg Leu
 50 55 60
 Lys Pro Gly Asp Gln Leu Val Ser Val Asn Lys Glu Ser Met Ile Gly

65	70	75	80
Val Ser Phe Glu Glu Ala Lys Ser Ile Ile Thr Arg Ala Lys Leu Arg			
	85	90	95
Leu Glu Ser Ala Trp Glu Ile Ala Phe Ile Arg Gln Lys Ser Asp Asn			
	100	105	110
Ile Gln Pro Glu Asn Leu Ser Cys Thr Ser Leu Ile Glu Ala Ser Gly			
	115	120	125
Glu Tyr Gly Pro Gln Ala Ser Thr Leu Ser Leu Phe Ser Ser Pro Pro			
	130	135	140
Glu Ile Leu Ile Pro Lys Thr Ser Ser Thr Pro Lys Thr Asn Asn Asp			
145	150	155	160
Ile Leu Ser Ser Cys Glu Ile Lys Thr Gly Tyr Asn Lys Thr Val Gln			
	165	170	175
Ile Pro Ile Thr Ser Glu Asn Ser Thr Val Gly Leu Ser Asn Thr Asp			
	180	185	190
Val Ala Ser Ala Trp Thr Glu Asn Tyr Gly Leu Gln Glu Lys Ile Ser			
	195	200	205
Leu Asn Pro Ser Val Arg Phe Lys Ala Glu Lys Leu Glu Met Ala Leu			
	210	215	220
Asn Tyr Leu Gly Ile Gln Pro Thr Lys Glu Gln His Gln Ala Leu Arg			
225	230	235	240
Gln Gln Val Gln Ala Asp Ser Lys Gly Thr Val Ser Phe Gly Asp Phe			
	245	250	255
Val Gln Val Ala Arg Asn Leu Phe Cys Leu Gln Leu Asp Glu Val Asn			
	260	265	270
Val Gly Ala His Glu Ile Ser Asn Ile Leu Asp Ser Gln Leu Leu Pro			
	275	280	285
Cys Asp Ser Ser Glu Ala Asp Glu Met Glu Arg Leu Lys Cys Glu Arg			
	290	295	300

Asp Asp Ala Leu Lys Glu Val Asn Thr Leu Lys Glu Lys Leu Leu Glu
305 310 315 320
Ser Asp Lys Gln Arg Lys Gln Leu Thr Glu Glu Leu Gln Asn Val Lys
325 330 335
Gln Glu Ala Lys Ala Val Val Glu Glu Thr Arg Ala Leu Arg Ser Arg
340 345 350
Ile His Leu Ala Glu Ala Ala Gln Arg Gln Ala His Gly Met Glu Met
355 360 365
Asp Tyr Glu Glu Val Ile Arg Leu Leu Glu Ala Lys Ile Thr Glu Leu
370 375 380
Lys Ala Gln Leu Ala Asp Tyr Ser Asp Gln Asn Lys Glu Ser Val Gln
385 390 395 400
Asp Leu Lys Lys Arg Ile Met Val Leu Asp Cys Gln Leu Arg Lys Ser
405 410 415
Glu Met Ala Arg Lys Thr Phe Glu Ala Ser Thr Glu Lys Leu Leu His
420 425 430
Phe Val Glu Ala Ile Gln Glu Val Phe Ser Asp Asn Ser Thr Pro Leu
435 440 445
Ser Asn Leu Ser Glu Arg Arg Ala Val Leu Ala Ser Gln Thr Ser Leu
450 455 460
Thr Pro Leu Gly Arg Asn Gly Arg Ser Ile Pro Ala Thr Leu Ala Leu
465 470 475 480
Glu Ser Lys Glu Leu Val Lys Ser Val Arg Ala Leu Leu Asp Met Asp
485 490 495
Cys Leu Pro Tyr Gly Trp Glu Glu Ala Tyr Thr Ala Asp Gly Ile Lys
500 505 510
Tyr Phe Ile Asn His Val Thr Gln Thr Thr Ser Trp Ile His Pro Val
515 520 525
Met Ser Val Leu Asn Leu Ser Arg Ser Glu Glu Asn Glu Glu Asp Cys

<210> 2930
<211> 116
<212> PRT
<213> Homo sapiens

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<210> 2931

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2931

Met Leu Ser Pro Arg Leu Glu Cys Ser Gly Thr Ile Ser Ala Pro Cys

1 5 10 15

Ser Leu His Leu Leu Gly Ser Ser Asn Pro Thr Pro Ser Ala Ser Gln

20 25 30

Val Ala Gly Thr Ala Gly Ala Gly His His Val Gln Leu Ile Phe Val

35 40 45

Phe Phe Val Asp Met Gly Phe His His Val Ala Gln Ala Gly Leu Glu

50 55 60

Leu Leu Ser Ser Ser Asp Leu Pro Ala Ser Thr Thr Gln Asn Ala Gly

65 70 75 80

Ile Thr Val Met Ser Tyr Cys Thr Pro Ser Ser Gly Ile Val Ser Ser

85 90 95

Glu Val Thr Asn Val Pro Gln Asn His Tyr Ala Met Gln Arg His Ala

100 105 110

Leu Lys Thr Thr Gly Ser Leu Gly Thr Val Thr His Ala Cys Asn Pro

115 120 125

Ser Ala Leu Arg Gly

130

<210> 2932

<211> 261

<212> PRT

<213> Homo sapiens

<400> 2932

```

Met Leu Pro Gly Trp Asp Leu Cys Asn Ser Gly Met Ile Lys Asp Tyr
  1             5             10             15
Ser Gly Val Asn Leu Phe Ser Arg Lys Val Leu Asp Leu Ser Asp Lys
      20             25             30
Tyr Thr Ala Thr Leu Pro Asn Gln Val Gly Ile Pro Arg Gly Leu Glu
      35             40             45
Asn Asn Cys Asp Ser Leu Arg Glu Ser Asp Thr Ile Val Tyr Leu Leu
      50             55             60
Ser Arg Leu Phe Leu Val Asn Lys Leu Val Asn Met Pro Leu Glu Leu
      65             70             75             80
Ala Cys Arg Val Gly Ser Ser Phe Arg Met Glu Ser Ile His Asn Lys
      85             90             95
Met Arg Gly Ala Gly Asn Asp Ile Leu Asn Met Ser Ser Phe Tyr Ser
      100            105            110
Cys Leu Arg Asn Gly Lys Asn Glu Ser His Val Pro Glu Ala Asp Leu
      115            120            125
Ser Leu Leu Lys Leu Ile Ser Cys Trp Arg Asp Gln Ser Val Gln Val
      130            135            140
Thr Glu Ala Ile Gln Ala Val Leu Leu Ala Glu Val Gln Gln His Met
      145            150            155            160
Lys Ser Leu Gly Lys Ile Pro Val Asn Ser Gln Pro Val Ser Met Ala
      165            170            175
Glu Asn Gly Asn Cys Glu Met Lys Gln Met Leu Pro Lys Leu Glu Trp
      180            185            190
Thr Glu Glu Leu Glu Leu Gln Cys Val Arg Asn Thr Leu Pro Leu Gln
      195            200            205

```

Thr Pro Val Ser Pro Val Lys His Asp Ser Asn Ser Asn Ser Ala Asn
 210 215 220
 Phe Gln Asp Val Glu Asp Met Pro Asp Arg Cys Ala Leu Glu Glu Ser
 225 230 235 240
 Glu Ser Pro Gly Glu Pro Arg His His Ser Trp Ile Ala Lys Val Cys
 245 250 255
 Pro Cys Lys Val Ser
 260

<210> 2933

<211> 1020

<212> PRT

<213> Homo sapiens

<400> 2933

Met Glu Asn Ile Leu Cys Ile Cys Val His Pro His Ile Phe Gln Gly
 1 5 10 15
 Trp Lys Asp Leu Leu Glu Ala Arg Leu Ile Lys His Gln Asp Glu Ile
 20 25 30
 Ser Ser Gln Cys Ile Ser Ala Leu Ser Leu Glu Glu Ile Asn Gly Thr
 35 40 45
 Ile Leu Lys Leu Lys Ser Val Thr Gln Ser Ser Lys Arg Leu Leu Pro
 50 55 60
 Ser Ile Gly Leu Ser Thr Val Leu Leu Lys Lys Glu Glu Asp Ile Met
 65 70 75 80
 Thr Ala Leu Glu Ile Ile Cys Glu Asn Glu Cys Glu Gly Thr Leu Leu
 85 90 95
 Glu Lys Asp Lys Asn Lys Phe Leu Glu Phe Lys Ala Ser Lys Glu Glu

100	105	110	
Asp Phe Tyr Arg Gly Gly Lys Val Ser Trp Trp Asn Phe Tyr Phe Ser			
115	120	125	
Ser Glu Ser Tyr Ser Ser Pro Phe Val Lys Arg Asp Lys Tyr Glu Arg			
130	135	140	
Leu Glu Ala Met Ile Gln Asn Cys Ala Asp Ser Ser Lys Pro Thr Ser			
145	150	155	160
Thr Lys Ile Ile His Leu Tyr His His Pro Gly Cys Gly Gly Thr Thr			
165	170	175	
Leu Ala Met His Ile Leu Trp Glu Leu Arg Lys Lys Phe Arg Cys Ala			
180	185	190	
Val Leu Lys Asn Lys Thr Val Asp Phe Ser Glu Ile Gly Glu Gln Val			
195	200	205	
Thr Ser Leu Ile Thr Tyr Gly Ala Met Asn Arg Gln Glu Tyr Val Pro			
210	215	220	
Val Leu Leu Leu Val Asp Asp Phe Glu Glu Gln Asp Asn Val Tyr Leu			
225	230	235	240
Leu Gln Tyr Ser Ile Gln Thr Ala Ile Ala Lys Lys Tyr Ile Arg Tyr			
245	250	255	
Glu Lys Pro Leu Val Ile Ile Leu Asn Cys Met Arg Ser Gln Asn Pro			
260	265	270	
Glu Lys Ser Ala Arg Thr Pro Asp Ser Ile Ala Val Ile Gln Gln Leu			
275	280	285	
Ser Pro Lys Glu Gln Arg Ala Phe Glu Leu Lys Leu Lys Glu Ile Lys			
290	295	300	
Glu Gln His Lys Asn Phe Glu Asp Phe Tyr Ser Phe Met Ile Met Lys			
305	310	315	320
Thr Asn Phe Asn Lys Glu Tyr Ile Glu Asn Val Val Arg Asn Ile Leu			
325	330	335	

Lys Gly Gln Asn Ile Phe Thr Lys Glu Ala Lys Leu Phe Ser Phe Leu
340 345 350
Ala Leu Leu Asn Ser Tyr Val Pro Asp Thr Thr Ile Ser Leu Ser Gln
355 360 365
Cys Glu Lys Phe Leu Gly Ile Gly Asn Lys Lys Ala Phe Trp Gly Thr
370 375 380
Glu Lys Phe Glu Asp Lys Met Gly Thr Tyr Ser Thr Ile Leu Ile Lys
385 390 395 400
Thr Glu Val Ile Glu Cys Gly Asn Tyr Cys Gly Val Arg Ile Ile His
405 410 415
Ser Leu Ile Ala Glu Phe Ser Leu Glu Glu Leu Lys Lys Ser Tyr His
420 425 430
Leu Asn Lys Ser Gln Ile Met Leu Asp Met Leu Thr Glu Asn Leu Phe
435 440 445
Phe Asp Thr Gly Met Gly Lys Ser Lys Phe Leu Gln Asp Met His Thr
450 455 460
Leu Leu Leu Thr Arg His Arg Asp Glu His Glu Gly Glu Thr Gly Asn
465 470 475 480
Trp Phe Ser Pro Phe Ile Glu Ala Leu His Lys Asp Glu Gly Asn Glu
485 490 495
Ala Val Glu Ala Val Leu Leu Glu Ser Ile His Arg Phe Asn Pro Asn
500 505 510
Ala Phe Ile Cys Gln Ala Leu Ala Arg His Phe Tyr Ile Lys Lys Lys
515 520 525
Asp Phe Gly Asn Ala Leu Asn Trp Ala Lys Gln Ala Lys Ile Ile Glu
530 535 540
Pro Asp Asn Ser Tyr Ile Ser Asp Thr Leu Gly Gln Val Tyr Lys Ser
545 550 555 560
Lys Ile Arg Trp Trp Ile Glu Glu Asn Gly Gly Asn Gly Asn Ile Ser

565	570	575
Val Asp Asp Leu Ile Ala Leu Leu Asp Leu Ala Glu His Ala Ser Ser		
580	585	590
Ala Phe Lys Glu Ser Gln Gln Gln Ser Glu Asp Arg Glu Tyr Glu Val		
595	600	605
Lys Glu Arg Leu Tyr Pro Lys Ser Lys Arg Arg Tyr Asp Thr Tyr Asn		
610	615	620
Ile Ala Gly Tyr Gln Gly Glu Ile Glu Val Gly Leu Tyr Thr Ile Gln		
625	630	635
640		
Ile Leu Gln Leu Ile Pro Phe Phe Asp Asn Lys Asn Glu Leu Ser Lys		
645	650	655
Arg Tyr Met Val Asn Phe Val Ser Gly Ser Ser Asp Ile Pro Gly Asp		
660	665	670
Pro Asn Asn Glu Tyr Lys Leu Ala Leu Lys Asn Tyr Ile Pro Cys Leu		
675	680	685
Thr Lys Leu Lys Phe Ser Leu Lys Lys Ser Phe Asp Phe Phe Asp Glu		
690	695	700
Tyr Phe Val Leu Leu Lys Pro Arg Asn Asn Ile Lys Gln Asn Glu Glu		
705	710	715
720		
Ala Lys Thr Arg Arg Lys Val Ala Gly Tyr Phe Lys Lys Tyr Val Asp		
725	730	735
Ile Phe Cys Leu Leu Glu Glu Ser Gln Asn Asn Thr Gly Leu Gly Ser		
740	745	750
Lys Phe Ser Glu Pro Leu Gln Val Glu Arg Cys Arg Arg Asn Leu Val		
755	760	765
Ala Leu Lys Ala Asp Lys Phe Ser Gly Leu Leu Glu Tyr Leu Ile Lys		
770	775	780
Ser Gln Glu Asp Ala Ile Ser Thr Met Lys Cys Ile Val Asn Glu Tyr		
785	790	795
800		

Thr Phe Leu Leu Glu Gln Cys Thr Val Lys Ile Gln Ser Lys Glu Lys
 805 810 815
 Leu Asn Phe Ile Leu Ala Asn Ile Ile Leu Ser Cys Ile Gln Pro Thr
 820 825 830
 Ser Arg Leu Val Lys Pro Val Glu Lys Leu Lys Asp Gln Leu Arg Glu
 835 840 845
 Val Leu Gln Pro Ile Gly Leu Thr Tyr Gln Phe Ser Glu Pro Tyr Phe
 850 855 860
 Leu Ala Ser Leu Leu Phe Trp Pro Glu Asn Gln Gln Leu Asp Gln His
 865 870 875 880
 Ser Glu Gln Met Lys Glu Tyr Ala Gln Ala Leu Lys Asn Ser Phe Lys
 885 890 895
 Gly Gln Tyr Lys His Met His Arg Thr Lys Gln Pro Ile Ala Tyr Phe
 900 905 910
 Phe Leu Gly Lys Gly Lys Arg Leu Glu Arg Leu Val His Lys Gly Lys
 915 920 925
 Ile Asp Gln Cys Phe Lys Lys Thr Pro Asp Ile Asn Ser Leu Trp Gln
 930 935 940
 Ser Gly Asp Val Trp Lys Glu Glu Lys Val Gln Glu Leu Leu Leu Arg
 945 950 955 960
 Leu Gln Gly Arg Ala Glu Asn Asn Cys Leu Tyr Ile Glu Tyr Gly Ile
 965 970 975
 Asn Glu Lys Ile Thr Ile Pro Ile Thr Pro Ala Phe Leu Gly Gln Leu
 980 985 990
 Arg Ser Gly Arg Ser Ile Glu Lys Val Ser Phe Tyr Leu Gly Phe Ser
 995 1000 1005
 Ile Gly Gly Pro Leu Ala Tyr Asp Ile Glu Ile Val
 1010 1015 1020

<210> 2934

<211> 220

<212> PRT

<213> Homo sapiens

<400> 2934

Met Glu Asp Gln Met Asn Glu Met Lys Cys Glu Glu Lys Phe Arg Glu

1 5 10 15

Lys Arg Ile Lys Arg Asn Glu Gln Ser Leu Gln Glu Ile Trp Asp Tyr

20 25 30

Val Lys Arg Pro Asn Leu Arg Leu Ile Ala Val Pro Glu Ser Asp Gly

35 40 45

Glu Asn Gly Thr Lys Leu Glu Asn Thr Leu Arg Asp Ile Ile Gln Glu

50 55 60

Asn Phe Pro Pro Asp Asn Leu Val Arg Gln Ala Asn Ile Gln Ile Gln

65 70 75 80

Glu Ile Gln Arg Thr Pro Gln Arg Tyr Pro Pro Arg Arg Ala Thr Pro

85 90 95

Arg His Ile Ile Val Arg Phe Thr Lys Val Glu Met Lys Glu Lys Ile

100 105 110

Leu Arg Val Ala Arg Glu Gln Gly Arg Val Thr His Lys Gly Lys Arg

115 120 125

Ile Arg Gln Thr Ala Asp Leu Ser Ala Glu Thr Leu Lys Ala Arg Arg

130 135 140

Glu Trp Gly Pro Ile Phe Asn Ile Leu Lys Glu Gln Asn Phe Gln Ala

145 150 155 160

Arg Ile Ser Tyr Pro Ala Lys Leu Ser Phe Ile Ser Glu Gly Glu Ile

165 170 175

Lys Cys Phe Thr Asn Lys Gln Met Leu Arg Asp Phe Val Thr Thr Arg
 180 185 190
 Pro Ala Ala Lys Glu Leu Leu Lys Glu Ala Leu Asn Met Glu Arg Asn
 195 200 205
 Asn Trp Tyr Gln Pro Leu Gln Lys His Ala Lys Leu
 210 215 220

<210> 2935

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2935

Met Arg Lys Cys Thr Lys Gly Gln Ser Leu Pro Ile Phe Thr Pro Arg
 1 5 10 15
 Lys Glu Asn Tyr Ile Ile Asp Lys Leu Ile Asn Leu Phe Tyr Val Phe
 20 25 30
 Ile Tyr Tyr Phe Ala Leu Ser Ser Arg Leu Glu Cys Thr Gly Ala Ile
 35 40 45
 Ser Thr His Cys Asn Leu Leu Leu Pro Gly Ser Ser Asn Ser Thr Ser
 50 55 60
 Ala Ser Leu Val Thr Gly Thr Thr Gly Val His His His Ala Gln Leu
 65 70 75 80
 Ile Phe Val Phe Ile Val Glu Thr Gly Phe His His Val Gly Gln Pro
 85 90 95
 Gly Leu Lys Leu Leu Thr Ser Gly Asp Met Pro Thr Ser Ala Ser Gln
 100 105 110
 Met Leu Gly Leu Gln Val

115

<210> 2936

<211> 708

<212> PRT

<213> Homo sapiens

<400> 2936

```

Met Arg Glu Arg Ile Trp Ala Pro Pro Leu Leu Leu Leu Leu Pro Leu
  1           5           10          15
Leu Leu Pro Pro Pro Leu Trp Gly Gly Pro Pro Asp Ser Pro Arg Arg
          20           25           30
Glu Leu Glu Leu Glu Pro Gly Pro Leu Gln Pro Phe Asp Leu Leu Tyr
          35           40           45
Ala Ser Gly Ala Ala Ala Tyr Tyr Ser Gly Asp Tyr Glu Arg Ala Val
          50           55           60
Arg Asp Leu Glu Ala Ala Leu Arg Ser His Arg Arg Leu Arg Glu Ile
          65           70           75           80
Arg Thr Arg Cys Ala Arg His Cys Ala Ala Arg His Pro Leu Pro Pro
          85           90           95
Pro Pro Pro Gly Glu Gly Pro Gly Ala Glu Leu Pro Leu Phe Arg Ser
          100          105          110
Leu Leu Gly Arg Ala Arg Cys Tyr Arg Ser Cys Glu Thr Gln Arg Leu
          115          120          125
Gly Gly Pro Ala Ser Arg His Arg Val Ser Glu Asp Val Arg Ser Asp
          130          135          140
Phe Gln Arg Arg Val Pro Tyr Asn Tyr Leu Gln Arg Ala Tyr Ile Lys
          145          150          155          160

```

Leu Asn Gln Leu Glu Lys Ala Val Glu Ala Ala His Thr Phe Phe Val
165 170 175
Ala Asn Pro Glu His Met Glu Met Gln Gln Asn Ile Glu Asn Tyr Arg
180 185 190
Ala Thr Ala Gly Val Glu Ala Leu Gln Leu Val Asp Arg Glu Ala Lys
195 200 205
Pro His Met Glu Ser Tyr Asn Ala Gly Val Lys His Tyr Glu Ala Asp
210 215 220
Asp Phe Glu Met Ala Ile Arg His Phe Glu Gln Ala Leu Arg Glu Tyr
225 230 235 240
Phe Val Glu Asp Thr Glu Cys Arg Thr Leu Cys Glu Gly Pro Gln Arg
245 250 255
Phe Glu Glu Tyr Glu Tyr Leu Gly Tyr Lys Ala Gly Leu Tyr Glu Ala
260 265 270
Ile Ala Asp His Tyr Met Gln Val Leu Val Cys Gln His Glu Cys Val
275 280 285
Arg Glu Leu Ala Thr Arg Pro Gly Arg Leu Ser Pro Ile Glu Asn Phe
290 295 300
Leu Pro Leu His Tyr Asp Tyr Leu Gln Phe Ala Tyr Tyr Arg Val Gly
305 310 315 320
Glu Tyr Val Lys Ala Leu Glu Cys Ala Lys Ala Tyr Leu Leu Cys His
325 330 335
Pro Asp Asp Glu Asp Val Leu Asp Asn Val Asp Tyr Tyr Glu Ser Leu
340 345 350
Leu Asp Asp Ser Ile Asp Pro Ala Ser Ile Glu Ala Arg Glu Asp Leu
355 360 365
Thr Met Phe Val Lys Arg His Lys Leu Glu Ser Glu Leu Ile Lys Ser
370 375 380
Ala Ala Glu Gly Leu Gly Phe Ser Tyr Thr Glu Pro Asn Tyr Trp Ile

385 390 395 400
Arg Tyr Gly Gly Arg Gln Asp Glu Asn Arg Val Pro Ser Gly Val Asn
 405 410 415
Val Glu Gly Ala Glu Val His Gly Phe Ser Met Gly Lys Lys Leu Ser
 420 425 430
Pro Lys Ile Asp Arg Asp Leu Arg Glu Gly Gly Pro Leu Leu Tyr Glu
 435 440 445
Asn Ile Thr Phe Val Tyr Asn Ser Glu Gln Leu Asn Gly Thr Gln Arg
 450 455 460
Val Leu Leu Asp Asn Val Leu Ser Glu Glu Gln Cys Arg Glu Leu His
465 470 475 480
Ser Val Ala Ser Gly Ile Met Leu Val Gly Asp Gly Tyr Arg Gly Lys
 485 490 495
Thr Ser Pro His Thr Pro Asn Glu Lys Phe Glu Gly Ala Thr Val Leu
 500 505 510
Lys Ala Leu Lys Ser Gly Tyr Glu Gly Arg Val Pro Leu Lys Ser Ala
 515 520 525
Arg Leu Phe Tyr Asp Ile Ser Glu Lys Ala Arg Arg Ile Val Glu Ser
 530 535 540
Tyr Phe Met Leu Asn Ser Thr Leu Tyr Phe Ser Tyr Thr His Met Val
545 550 555 560
Cys Arg Thr Ala Leu Ser Gly Gln Gln Asp Arg Arg Asn Asp Leu Ser
 565 570 575
His Pro Ile His Ala Asp Asn Cys Leu Leu Asp Pro Glu Ala Asn Glu
 580 585 590
Cys Trp Lys Glu Pro Pro Ala Tyr Thr Phe Arg Asp Tyr Ser Ala Leu
 595 600 605
Leu Tyr Met Asn Asp Asp Phe Glu Gly Gly Glu Phe Ile Phe Thr Glu
 610 615 620

Met Asp Ala Lys Thr Val Thr Ala Ser Ile Lys Pro Lys Cys Gly Arg
 625 630 635 640
 Met Ile Ser Phe Ser Ser Gly Gly Glu Asn Pro His Gly Val Lys Ala
 645 650 655
 Val Thr Lys Gly Lys Arg Cys Ala Val Ala Leu Trp Phe Thr Leu Asp
 660 665 670
 Pro Leu Tyr Arg Glu Leu Glu Arg Ile Gln Ala Asp Glu Val Ile Ala
 675 680 685
 Ile Leu Asp Gln Glu Gln Gln Gly Lys His Glu Leu Asn Ile Asn Pro
 690 695 700
 Lys Asp Glu Leu
 705

<210> 2937

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2937

Met Ser Leu Arg Arg Leu Cys Gly Pro Gln Gln Ala Gly Gly Leu Thr
 1 5 10 15
 Trp Glu Gln Arg Leu Gln Gly Trp His Leu His Thr Ile Pro Leu His
 20 25 30
 Arg Ala Phe Leu Arg Phe Leu Ser Val Val Gly Ile Leu Pro Pro Gln
 35 40 45
 Leu Ala Ala Pro Cys Leu Leu Trp Leu His Thr Gly Ser Leu Gly Asn
 50 55 60
 Phe Lys Lys Ala Leu Met Pro Gly Leu His Phe Gly Gln Tyr Asn Gln

65 70 75 80
 Ser Leu Arg Ala Ala Leu Gly Gly Gly Val Cys Gly Val Ser Trp Thr
 85 90 95
 His Thr Leu Pro Ala Ser Gly Ser Ser Asp Arg Val Leu Arg Thr Ala
 100 105 110
 Glu Tyr Leu Glu Val Ser Ser Ser
 115 120

<210> 2938

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2938

Met Gln Leu Arg Ala Arg Gln Cys Thr Pro Asn Ala Gly Gly Val Thr
 1 5 10 15
 Pro Ala Gln Phe His Leu Leu Leu His Asp Val Leu Leu Thr Gln Ser
 20 25 30
 Pro Thr Thr Gly Leu Trp Ala Ala Pro Phe Leu Thr Ser Thr Val Leu
 35 40 45
 Met Asp Thr Asp Ala Ser Pro Ser Gly Glu Asp Thr Val Arg Ala Ser
 50 55 60
 Leu Ser His Ala Phe Leu Ser Leu Thr Ala Arg Ser Gln Pro Pro Thr
 65 70 75 80
 Lys Pro Ser Leu Ser Ala Ser Gln Ala Ala Met Cys Gln Val Ser Leu
 85 90 95
 Pro Arg Leu Ser Trp Lys Ala Leu Leu Cys Thr Asn Leu Pro Ala Leu
 100 105 110

Gly Ile Ser Gln Pro Ser Ser Phe Tyr Gln Ser Asp Gly Cys Lys Gly
 115 120 125
 Asn Ser Cys Val Leu Leu Cys Ile Ser Leu Ile Pro Val Gly Leu Ser
 130 135 140
 Ser Ser Ser Leu Asn Cys Val Ser Phe Ala Leu Ser Leu Leu Gly Ile
 145 150 155 160
 Val Cys Trp Gly Trp Leu Ser Val Asn Leu Asn Arg Ser Lys Leu Gly
 165 170 175
 Tyr Phe

<210> 2939

<211> 1330

<212> PRT

<213> Homo sapiens

<400> 2939

Met Pro Leu Ser Pro Pro Ala Gln Gly Asp Pro Gly Glu Pro Ser Pro
 1 5 10 15
 Cys Arg Pro Pro Lys Lys His Thr Thr Phe His Leu Trp Arg Ser Lys
 20 25 30
 Lys Lys Gln Gln Pro Ala Pro Pro Asp Cys Gly Val Phe Val Pro His
 35 40 45
 Pro Leu Pro Ala Pro Ala Gly Glu Ala Arg Ala Leu Asp Val Val Asp
 50 55 60
 Gly Lys Tyr Val Val Arg Asp Ser Gln Glu Phe Pro Leu His Cys Gly
 65 70 75 80
 Glu Ser Gln Phe Phe His Thr Thr Ser Glu Ala Leu Gly Ser Leu Leu

85	90	95
Leu Glu Ser Gly Ile Phe Lys Lys Ser Arg Ala Gln Pro Pro Glu Asp		
100	105	110
Asn Arg Arg Lys Pro Val Leu Gly Lys Leu Gly Thr Leu Phe Thr Ala		
115	120	125
Gly Arg Arg Arg Asn Ser Arg Asn Gly Leu Glu Ser Pro Thr Arg Ser		
130	135	140
Asn Ala Lys Pro Leu Ser Pro Lys Asp Val Val Ala Ser Pro Lys Leu		
145	150	155
160		
Pro Glu Arg Glu Ser Glu Arg Ser Arg Ser Gln Ser Ser Gln Leu Lys		
165	170	175
Gln Thr Asp Thr Ser Glu Glu Gly Ser Pro Arg Glu Asn Pro Arg Glu		
180	185	190
Ala Glu Gly Glu Leu Pro Glu Ser Gly Gly Pro Ala Ala Pro Pro Asp		
195	200	205
Ala Glu Leu Ser Pro Arg Trp Ser Ser Ser Ala Ala Ala Val Ala Val		
210	215	220
Gln Gln Cys His Glu Asn Asp Ser Pro Gln Leu Glu Pro Leu Glu Ala		
225	230	235
240		
Glu Gly Glu Pro Phe Pro Asp Ala Thr Thr Thr Ala Lys Gln Leu His		
245	250	255
Ser Ser Pro Gly Asn Ser Ser Arg Gln Glu Asn Ala Glu Thr Pro Ala		
260	265	270
Arg Ser Pro Gly Glu Asp Ala Ser Pro Gly Ala Gly His Glu Gln Glu		
275	280	285
Ala Phe Leu Gly Val Arg Gly Ala Pro Gly Ser Pro Thr Gln Glu Arg		
290	295	300
Pro Ala Gly Gly Leu Gly Glu Ala Pro Asn Gly Ala Pro Ser Val Cys		
305	310	315
320		

Ala Glu Glu Gly Ser Leu Gly Pro Arg Asn Ala Arg Ser Gln Pro Arg
325 330 335
Lys Gly Ala Ser Asp Leu Pro Gly Glu Pro Pro Ala Glu Gly Ala Ala
340 345 350
His Thr Ala Ser Ser Ala Gln Ala Asp Cys Thr Ala Arg Pro Lys Gly
355 360 365
His Ala His Pro Ala Lys Val Leu Thr Leu Asp Ile Tyr Leu Ser Lys
370 375 380
Thr Glu Gly Ala Gln Val Asp Glu Pro Val Val Ile Thr Pro Arg Ala
385 390 395 400
Glu Asp Cys Gly Asp Trp Asp Asp Met Glu Lys Arg Ser Ser Gly Arg
405 410 415
Arg Ser Gly Arg Arg Arg Gly Ser Gln Lys Ser Thr Asp Ser Pro Gly
420 425 430
Ala Asp Ala Glu Leu Pro Glu Ser Ala Ala Arg Asp Asp Ala Val Phe
435 440 445
Asp Asp Glu Val Ala Pro Asn Ala Ala Ser Asp Asn Ala Ser Ala Glu
450 455 460
Lys Lys Val Lys Ser Pro Arg Ala Ala Leu Asp Gly Gly Val Ala Ser
465 470 475 480
Ala Ala Ser Pro Glu Ser Lys Pro Ser Pro Gly Thr Lys Gly Gln Leu
485 490 495
Arg Gly Glu Ser Asp Arg Ser Lys Gln Pro Pro Pro Ala Ser Ser Pro
500 505 510
Thr Lys Arg Lys Gly Arg Ser Arg Ala Leu Glu Ala Val Pro Ala Pro
515 520 525
Pro Ala Ser Gly Pro Arg Ala Pro Ala Lys Glu Ser Pro Pro Lys Arg
530 535 540
Val Pro Asp Pro Ser Pro Val Thr Lys Gly Thr Ala Ala Glu Ser Gly

545 550 555 560
Glu Glu Ala Ala Arg Ala Ile Pro Arg Glu Leu Pro Val Lys Ser Ser
565 570 575
Ser Leu Leu Pro Glu Ile Lys Pro Glu His Lys Arg Gly Pro Leu Pro
580 585 590
Asn His Phe Asn Gly Arg Ala Glu Gly Gly Arg Ser Arg Glu Leu Gly
595 600 605
Arg Ala Ala Gly Ala Pro Gly Ala Ser Asp Ala Asp Gly Leu Lys Pro
610 615 620
Arg Asn His Phe Gly Val Gly Arg Ser Thr Val Thr Thr Lys Val Thr
625 630 635 640
Leu Pro Ala Lys Pro Lys His Val Glu Leu Asn Leu Lys Thr Pro Lys
645 650 655
Asn Leu Asp Ser Leu Gly Asn Glu His Asn Pro Phe Ser Gln Pro Val
660 665 670
His Lys Gly Asn Thr Ala Thr Lys Ile Ser Leu Phe Glu Asn Lys Arg
675 680 685
Thr Asn Ser Ser Pro Arg His Thr Asp Ile Arg Gly Gln Arg Asn Thr
690 695 700
Pro Ala Ser Ser Lys Thr Phe Val Gly Arg Ala Lys Leu Asn Leu Ala
705 710 715 720
Lys Lys Ala Lys Glu Met Glu Gln Pro Glu Lys Lys Val Met Pro Asn
725 730 735
Ser Pro Gln Asn Gly Val Leu Val Lys Glu Thr Ala Ile Glu Thr Lys
740 745 750
Val Thr Val Ser Glu Glu Glu Ile Leu Pro Ala Thr Arg Gly Met Asn
755 760 765
Gly Asp Ser Ser Glu Asn Gln Ala Leu Gly Pro Gln Pro Asn Gln Asp
770 775 780

Asp Lys Ala Asp Val Gln Thr Asp Ala Gly Cys Leu Ser Glu Pro Val
785 790 795 800
Ala Ser Ala Leu Ile Pro Val Lys Asp His Lys Leu Leu Glu Lys Glu
805 810 815
Asp Ser Glu Ala Ala Asp Ser Lys Ser Leu Val Leu Glu Asn Val Thr
820 825 830
Asp Thr Ala Gln Asp Ile Pro Thr Thr Val Asp Thr Lys Asp Leu Pro
835 840 845
Pro Thr Ala Met Pro Lys Pro Gln His Thr Phe Ser Asp Ser Gln Ser
850 855 860
Pro Ala Glu Ser Ser Pro Gly Pro Ser Leu Ser Leu Ser Ala Pro Ala
865 870 875 880
Pro Gly Asp Val Pro Lys Asp Thr Cys Val Gln Ser Pro Ile Ser Ser
885 890 895
Phe Pro Cys Thr Asp Leu Lys Val Ser Glu Asn His Lys Gly Cys Val
900 905 910
Leu Pro Val Ser Arg Gln Asn Asn Glu Lys Met Pro Leu Leu Glu Leu
915 920 925
Gly Gly Glu Thr Thr Pro Pro Leu Ser Thr Glu Arg Ser Pro Glu Ala
930 935 940
Val Gly Ser Glu Cys Pro Ser Arg Val Leu Val Gln Val Arg Ser Phe
945 950 955 960
Val Leu Pro Val Glu Ser Thr Gln Asp Val Ser Ser Gln Val Ile Pro
965 970 975
Glu Ser Ser Glu Val Arg Glu Val Gln Leu Pro Thr Cys His Ser Asn
980 985 990
Glu Pro Glu Val Val Ser Val Ala Ser Cys Ala Pro Pro Gln Glu Glu
995 1000 1005
Val Leu Gly Asn Glu His Ser His Cys Thr Ala Glu Leu Ala Ala Lys

1010 1015 1020
Ser Gly Pro Gln Val Ile Pro Pro Ala Ser Glu Lys Thr Leu Pro Ile
1025 1030 1035 1040
Gln Ala Gln Ser Gln Gly Ser Arg Thr Pro Leu Met Ala Glu Ser Ser
 1045 1050 1055
Pro Thr Asn Ser Pro Ser Ser Gly Asn His Leu Ala Thr Pro Gln Arg
 1060 1065 1070
Pro Asp Gln Thr Val Thr Asn Gly Gln Asp Ser Pro Ala Ser Leu Leu
 1075 1080 1085
Asn Ile Ser Ala Gly Ser Asp Asp Ser Val Phe Asp Ser Ser Ser Asp
 1090 1095 1100
Met Glu Lys Phe Thr Glu Ile Ile Lys Gln Met Asp Ser Ala Val Cys
1105 1110 1115 1120
Met Pro Met Lys Arg Lys Lys Ala Arg Met Pro Asn Ser Pro Ala Pro
 1125 1130 1135
His Phe Ala Met Pro Pro Ile His Glu Asp His Leu Glu Lys Val Phe
 1140 1145 1150
Asp Pro Lys Val Phe Thr Phe Gly Leu Gly Lys Lys Lys Glu Ser Gln
 1155 1160 1165
Pro Glu Met Ser Pro Ala Leu His Leu Met Gln Asn Leu Asp Thr Lys
 1170 1175 1180
Ser Lys Leu Arg Pro Lys Arg Ala Ser Ala Glu Gln Ser Val Leu Phe
1185 1190 1195 1200
Lys Ser Leu His Thr Asn Thr Asn Gly Asn Ser Glu Pro Leu Val Met
 1205 1210 1215
Pro Glu Ile Asn Asp Lys Glu Asn Arg Asp Val Thr Asn Gly Gly Ile
 1220 1225 1230
Lys Arg Ser Arg Leu Glu Lys Ser Ala Leu Phe Ser Ser Leu Leu Ser
 1235 1240 1245

Ser Leu Pro Gln Asp Lys Ile Phe Ser Pro Ser Val Thr Ser Val Asn
 1250 1255 1260
 Thr Met Thr Thr Ala Phe Ser Thr Ser Gln Asn Gly Ser Leu Ser Gln
 1265 1270 1275 1280
 Ser Ser Val Ser Gln Pro Thr Thr Glu Gly Ala Pro Pro Cys Gly Leu
 1285 1290 1295
 Asn Lys Glu Gln Ser Asn Leu Leu Pro Asp Asn Ser Leu Lys Val Phe
 1300 1305 1310
 Asn Phe Asn Ser Ser Ser Thr Ser His Ser Ser Leu Lys Ser Pro Ser
 1315 1320 1325
 His Met
 1330

<210> 2940

<211> 959

<212> PRT

<213> Homo sapiens

<400> 2940

Met Gly Gly Gly Ser Gly Glu Glu Gln Leu Tyr Ala Asp Phe Pro Glu
 1 5 10 15
 Leu Asp Leu Ser Gln Leu Asp Ala Ser Asp Phe Asp Ser Ala Thr Cys
 20 25 30
 Phe Gly Glu Leu Gln Trp Cys Pro Glu Asn Ser Glu Thr Glu Pro Asn
 35 40 45
 Gln Tyr Ser Pro Asp Asp Ser Glu Leu Phe Gln Ile Asp Ser Glu Asn
 50 55 60
 Glu Ala Leu Leu Ala Glu Leu Thr Lys Thr Leu Asp Asp Ile Pro Glu

65	70	75	80
Asp Asp Val Gly Leu Ala Ala Phe Pro Ala Leu Asp Gly Gly Asp Ala			
	85	90	95
Leu Ser Cys Thr Ser Ala Ser Pro Ala Pro Ser Ser Ala Pro Pro Ser			
	100	105	110
Pro Ala Pro Glu Lys Pro Ser Ala Pro Ala Pro Glu Val Asp Glu Leu			
	115	120	125
Ser Leu Ala Asp Ser Thr Gln Asp Lys Lys Ala Pro Met Met Gln Ser			
	130	135	140
Gln Ser Arg Ser Cys Thr Glu Leu His Lys His Leu Thr Ser Ala Gln			
145	150	155	160
Cys Cys Leu Gln Asp Arg Gly Leu Gln Pro Pro Cys Leu Gln Ser Pro			
	165	170	175
Arg Leu Pro Ala Lys Glu Asp Lys Glu Pro Gly Glu Asp Cys Pro Ser			
	180	185	190
Pro Gln Pro Ala Pro Ala Ser Pro Arg Asp Ser Leu Ala Leu Gly Arg			
	195	200	205
Ala Asp Pro Gly Ala Pro Val Ser Gln Glu Asp Met Gln Ala Met Val			
	210	215	220
Gln Leu Ile Arg Tyr Met His Thr Tyr Cys Leu Pro Gln Arg Lys Leu			
225	230	235	240
Pro Pro Gln Thr Pro Glu Pro Leu Pro Lys Ala Cys Ser Asn Pro Ser			
	245	250	255
Gln Gln Val Arg Ser Arg Pro Trp Ser Arg His His Ser Lys Ala Ser			
	260	265	270
Trp Ala Glu Phe Ser Ile Leu Arg Glu Leu Leu Ala Gln Asp Val Leu			
	275	280	285
Cys Asp Val Ser Lys Pro Tyr Arg Leu Ala Thr Pro Val Tyr Ala Ser			
	290	295	300

Leu Thr Pro Arg Ser Arg Pro Arg Pro Pro Lys Asp Ser Gln Ala Ser
305 310 315 320
Pro Gly Arg Pro Ser Ser Val Glu Glu Val Arg Ile Ala Ala Ser Pro
325 330 335
Lys Ser Thr Gly Pro Arg Pro Ser Leu Arg Pro Leu Arg Leu Glu Val
340 345 350
Lys Arg Glu Val Arg Arg Pro Ala Arg Leu Gln Gln Gln Glu Glu Glu
355 360 365
Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Lys Glu Glu Glu
370 375 380
Glu Glu Trp Gly Arg Lys Arg Pro Gly Arg Gly Leu Pro Trp Thr Lys
385 390 395 400
Leu Gly Arg Lys Leu Glu Ser Ser Val Cys Pro Val Arg Arg Ser Arg
405 410 415
Arg Leu Asn Pro Glu Leu Gly Pro Trp Leu Thr Phe Ala Asp Glu Pro
420 425 430
Leu Val Pro Ser Glu Pro Gln Gly Ala Leu Pro Ser Leu Cys Leu Ala
435 440 445
Pro Lys Ala Tyr Asp Val Glu Arg Glu Leu Gly Ser Pro Thr Asp Glu
450 455 460
Asp Ser Gly Gln Asp Gln Gln Leu Leu Arg Gly Pro Gln Ile Pro Ala
465 470 475 480
Leu Glu Ser Pro Cys Glu Ser Gly Cys Gly Asp Met Asp Glu Asp Pro
485 490 495
Ser Cys Pro Gln Leu Pro Pro Arg Asp Ser Pro Arg Cys Leu Met Leu
500 505 510
Ala Leu Ser Gln Ser Asp Pro Thr Phe Gly Lys Lys Ser Phe Glu Gln
515 520 525
Thr Leu Thr Val Glu Leu Cys Gly Thr Ala Gly Leu Thr Pro Pro Thr

530	535	540
Thr Pro Pro Tyr Lys Pro	Thr Glu Glu Asp Pro	Phe Lys Pro Asp Ile
545	550	555
Lys His Ser Leu Gly Lys	Glu Ile Ala Leu Ser	Leu Pro Ser Pro Glu
565	570	575
Gly Leu Ser Leu Lys Ala	Thr Pro Gly Ala Ala	His Lys Leu Pro Lys
580	585	590
Lys His Pro Glu Arg Ser	Glu Leu Leu Ser His	Leu Arg His Ala Thr
595	600	605
Ala Gln Pro Ala Ser Gln	Ala Gly Gln Lys Arg	Pro Phe Ser Cys Ser
610	615	620
Phe Gly Asp His Asp Tyr	Cys Gln Val Leu Arg	Pro Glu Gly Val Leu
625	630	635
Gln Arg Lys Val Leu Arg	Ser Trp Glu Pro Ser	Gly Val His Leu Glu
645	650	655
Asp Trp Pro Gln Gln Gly	Ala Pro Trp Ala Glu	Ala Gln Ala Pro Gly
660	665	670
Arg Glu Glu Asp Arg Ser	Cys Asp Ala Gly Ala	Pro Pro Lys Asp Ser
675	680	685
Thr Leu Leu Arg Asp His	Glu Ile Arg Ala Ser	Leu Thr Lys His Phe
690	695	700
Gly Leu Leu Glu Thr Ala	Leu Glu Glu Glu Asp	Leu Ala Ser Cys Lys
705	710	715
Ser Pro Glu Tyr Asp Thr	Val Phe Glu Asp Ser	Ser Ser Ser Ser Gly
725	730	735
Glu Ser Ser Phe Leu Pro	Glu Glu Glu Glu Glu	Gly Glu Glu Glu
740	745	750
Glu Glu Asp Asp Glu Glu	Glu Asp Ser Gly Val	Ser Pro Thr Cys Ser
755	760	765

Asp His Cys Pro Tyr Gln Ser Pro Pro Ser Lys Ala Asn Arg Gln Leu
770 775 780
Cys Ser Arg Ser Arg Ser Ser Ser Gly Ser Ser Pro Cys His Ser Trp
785 790 795 800
Ser Pro Ala Thr Arg Arg Asn Phe Arg Cys Glu Ser Arg Gly Pro Cys
805 810 815
Ser Asp Arg Thr Pro Ser Ile Arg His Ala Arg Lys Arg Arg Glu Lys
820 825 830
Ala Ile Gly Glu Gly Arg Val Val Tyr Ile Gln Asn Leu Ser Ser Asp
835 840 845
Met Ser Ser Arg Glu Leu Lys Arg Arg Phe Glu Val Phe Gly Glu Ile
850 855 860
Glu Glu Cys Glu Val Leu Thr Arg Asn Arg Arg Gly Glu Lys Tyr Gly
865 870 875 880
Phe Ile Thr Tyr Arg Cys Ser Glu His Ala Ala Leu Ser Leu Thr Lys
885 890 895
Gly Ala Ala Leu Arg Lys Arg Asn Glu Pro Ser Phe Gln Leu Ser Tyr
900 905 910
Gly Gly Leu Arg His Phe Cys Trp Pro Arg Tyr Thr Asp Tyr Asp Ser
915 920 925
Asn Ser Glu Glu Ala Leu Pro Ala Ser Gly Lys Ser Lys Tyr Glu Ala
930 935 940
Met Asp Phe Asp Ser Leu Leu Lys Glu Ala Gln Gln Ser Leu His
945 950 955

<210> 2941

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2941

Met Ala Glu Leu Arg Gln Val Pro Gly Gly Arg Glu Thr Pro Gln Gly
 1 5 10 15
 Glu Leu Arg Pro Glu Val Val Glu Asp Glu Val Pro Arg Ser Pro Val
 20 25 30
 Ala Glu Glu Pro Gly Gly Gly Gly Ser Ser Ser Ser Glu Ala Lys Leu
 35 40 45
 Ser Pro Arg Glu Glu Glu Glu Leu Asp Pro Arg Ile Gln Glu Glu Leu
 50 55 60
 Glu His Leu Asn Gln Ala Ser Glu Glu Ile Asn Gln Val Glu Leu Gln
 65 70 75 80
 Leu Asp Glu Ala Arg Thr Thr Tyr Arg Arg Ile Leu Gln Glu Ser Ala
 85 90 95
 Arg Lys Leu Asn Thr Gln Gly Ser His Leu Gly Ser Cys Ile Glu Lys
 100 105 110
 Ala Arg Pro Tyr Tyr Glu Ala Arg Arg Leu Ala Lys Glu Ala Gln Gln
 115 120 125
 Glu Thr Gln Lys Ala Ala Leu Arg Tyr Glu Arg Ala Val Ser Met His
 130 135 140
 Asn Ala Ala Arg Glu Met Val Phe Val Ala Glu Gln Gly Val Met Ala
 145 150 155 160
 Asp Lys Asn Arg Leu Asp Pro Thr Trp Gln Glu Met Leu Asn His Ala
 165 170 175
 Thr Cys Lys Val Asn Glu Ala Glu Glu Glu Arg Leu Arg Gly Glu Arg
 180 185 190
 Glu His Gln Arg Val Thr Arg Leu Cys Gln Gln Ala Glu Ala Arg Val
 195 200 205

Gln Ala Leu Gln Lys Thr Leu Arg Arg Ala Ile Gly Lys Ser Arg Pro
210 215 220
Tyr Phe Glu Leu Lys Ala Gln Phe Ser Gln Ile Leu Glu Glu His Lys
225 230 235 240
Ala Lys Val Thr Glu Leu Glu Gln Gln Val Ala Gln Ala Lys Thr Arg
245 250 255
Tyr Ser Val Ala Leu Arg Asn Leu Glu Gln Ile Ser Glu Gln Ile His
260 265 270
Ala Arg Arg Arg Gly Gly Leu Pro Pro His Pro Leu Gly Pro Arg Arg
275 280 285
Ser Ser Pro Val Gly Ala Glu Ala Gly Pro Glu Asp Met Glu Asp Gly
290 295 300
Asp Ser Gly Ile Glu Gly Ala Glu Gly Ala Gly Leu Glu Glu Gly Ser
305 310 315 320
Ser Leu Gly Pro Gly Pro Ala Pro Asp Thr Asp Thr Leu Ser Leu Leu
325 330 335
Ser Leu Arg Thr Val Ala Ser Asp Leu Gln Lys Cys Asp Ser Val Glu
340 345 350
His Leu Arg Gly Leu Ser Asp His Val Ser Leu Asp Gly Gln Glu Leu
355 360 365
Gly Thr Arg Ser Gly Gly Arg Arg Gly Ser Asp Gly Gly Ala Arg Gly
370 375 380
Gly Arg His Gln Arg Ser Val Ser Leu
385 390

<210> 2942

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2942

Met Gly Ser Trp Ala Phe His Ile Thr Pro Phe Leu Leu Arg Leu Ser
1 5 10 15
Glu Ser His Arg Pro Phe Pro Trp Ile Ser Phe Gly Ala Lys Lys Gln
20 25 30
Arg Ser Phe Val Phe Val Phe Ser Leu Trp Asn Asp Phe Leu Leu Ser
35 40 45
Val Leu Phe Lys Phe Arg Arg Ser Tyr Ser Gly Ile Cys Thr Phe Pro
50 55 60
Cys Tyr Ser Ser Cys Leu Met Asn Phe Ile His Leu His Phe Ser Met
65 70 75 80
Trp Leu Ala Trp Thr Gly Gly Arg Thr Leu Trp Pro His Gly Thr Leu
85 90 95
Arg Thr Gln Gly Arg Ala Ser Ala Gly Lys Glu Leu Pro Gly Leu Thr
100 105 110
Glu Leu His Leu Thr Val Leu Phe Leu Ala Ile Phe Cys Cys Leu Phe
115 120 125
Leu Cys Val Asp Phe Val Pro Gly Lys Ile Phe His Ser Glu
130 135 140

<210> 2943

<211> 1309

<212> PRT

<213> Homo sapiens

<400> 2943

Met Arg Glu Pro Leu Pro Gly Ser Ala Ser Trp Gly Thr Pro Gly Pro
 1 5 10 15
 Pro Ser Ala Gly Thr Met Ser Gln Leu Gln Leu Trp Leu Gln Phe Glu
 20 25 30
 Ala Leu Asn Lys Asp Ser Ser Tyr Phe Glu Asp Phe Ser Asn Ile Ser
 35 40 45
 Ile Phe Ser Ser Ser Val Asp Ser Leu Ser Asp Ile Val Asp Thr Pro
 50 55 60
 Asp Phe Leu Pro Ala Asp Ser Leu Asn Gln Val Ser Thr Ile Trp Asp
 65 70 75 80
 Asp Asn Pro Ala Pro Ser Thr His Asp Lys Leu Phe Gln Leu Ser Arg
 85 90 95
 Pro Phe Ala Gly Phe Glu Asp Phe Leu Pro Ser His Ser Thr Pro Leu
 100 105 110
 Leu Val Ser Tyr Gln Glu Gln Ser Val Gln Ser Gln Pro Glu Glu Glu
 115 120 125
 Asp Glu Ala Glu Glu Glu Glu Ala Glu Glu Leu Gly His Thr Glu Thr
 130 135 140
 Tyr Ala Asp Tyr Val Pro Ser Lys Ser Lys Ile Gly Lys Gln His Pro
 145 150 155 160
 Asp Arg Val Val Glu Thr Ser Thr Leu Ser Ser Val Pro Pro Pro Asp
 165 170 175
 Ile Thr Tyr Thr Leu Ala Leu Pro Ser Asp Ser Gly Ala Leu Ser Ala
 180 185 190
 Leu Gln Leu Glu Ala Ile Thr Tyr Ala Cys Gln Gln His Glu Val Leu
 195 200 205
 Leu Pro Ser Gly Gln Arg Ala Gly Phe Leu Ile Gly Asp Gly Ala Gly
 210 215 220
 Val Gly Lys Gly Arg Thr Val Ala Gly Val Ile Leu Glu Asn His Leu

225 230 235 240
Arg Gly Arg Lys Lys Ala Leu Trp Phe Ser Val Ser Asn Asp Leu Lys
 245 250 255
Tyr Asp Ala Glu Arg Asp Leu Arg Asp Ile Glu Ala Thr Gly Ile Ala
 260 265 270
Val His Ala Leu Ser Lys Ile Lys Tyr Gly Asp Thr Thr Thr Ser Glu
 275 280 285
Gly Val Leu Phe Ala Thr Tyr Ser Ala Leu Ile Gly Glu Ser Gln Ala
 290 295 300
Gly Gly Gln His Arg Thr Arg Leu Arg Gln Ile Leu Asp Trp Cys Gly
305 310 315 320
Glu Ala Phe Glu Gly Val Ile Val Phe Asp Glu Cys His Lys Ala Lys
 325 330 335
Asn Ala Gly Ser Thr Lys Met Gly Lys Ala Val Leu Asp Leu Gln Asn
 340 345 350
Lys Leu Pro Leu Ala Arg Val Val Tyr Ala Ser Ala Thr Gly Ala Ser
 355 360 365
Glu Pro Arg Asn Met Ile Tyr Met Ser Arg Leu Gly Ile Trp Gly Glu
 370 375 380
Gly Thr Pro Phe Arg Asn Phe Glu Glu Phe Leu His Ala Ile Glu Lys
385 390 395 400
Arg Gly Val Gly Ala Met Glu Ile Val Ala Met Asp Met Lys Val Ser
 405 410 415
Gly Met Tyr Ile Ala Arg Gln Leu Ser Phe Ser Gly Val Thr Phe Arg
 420 425 430
Ile Glu Glu Ile Pro Leu Ala Pro Ala Phe Glu Cys Val Tyr Asn Arg
 435 440 445
Ala Ala Leu Leu Trp Ala Glu Ala Leu Asn Val Phe Gln Gln Ala Ala
 450 455 460

Asp Trp Ile Gly Leu Glu Ser Arg Lys Ser Leu Trp Gly Gln Phe Trp
465 470 475 480
Ser Ala His Gln Arg Phe Phe Lys Tyr Leu Cys Ile Ala Ala Lys Val
485 490 495
Arg Arg Leu Val Glu Leu Ala Arg Glu Glu Leu Ala Arg Asp Lys Cys
500 505 510
Val Val Ile Gly Leu Gln Ser Thr Gly Glu Ala Arg Thr Arg Glu Val
515 520 525
Leu Gly Glu Asn Asp Gly His Leu Asn Cys Phe Val Ser Ala Ala Glu
530 535 540
Gly Val Phe Leu Ser Leu Ile Gln Lys His Phe Pro Ser Thr Lys Arg
545 550 555 560
Lys Arg Asp Arg Gly Ala Gly Ser Lys Arg Lys Arg Arg Pro Arg Gly
565 570 575
Arg Gly Ala Lys Ala Pro Arg Leu Ala Cys Glu Thr Ala Gly Val Ile
580 585 590
Arg Ile Ser Asp Asp Ser Ser Thr Glu Ser Asp Pro Gly Leu Asp Ser
595 600 605
Asp Phe Asn Ser Phe Pro Glu Ser Leu Val Asp Asp Asp Val Val Ile
610 615 620
Val Asp Ala Val Gly Leu Pro Ser Asp Asp Arg Gly Pro Leu Cys Leu
625 630 635 640
Leu Gln Arg Asp Pro His Gly Pro Gly Val Leu Glu Arg Val Glu Arg
645 650 655
Leu Lys Gln Asp Leu Leu Asp Lys Val Arg Arg Leu Gly Arg Glu Leu
660 665 670
Pro Val Asn Thr Leu Asp Glu Leu Ile Asp Gln Leu Gly Gly Pro Gln
675 680 685
Arg Val Ala Glu Met Thr Gly Arg Lys Gly Arg Val Val Ser Arg Pro

690 695 700
Asp Gly Thr Val Ala Phe Glu Ser Arg Ala Glu Gln Gly Leu Ser Ile
705 710 715 720
Asp His Val Asn Leu Arg Glu Lys Gln Arg Phe Met Ser Gly Glu Lys
725 730 735
Leu Val Ala Ile Ile Ser Glu Ala Ser Ser Ser Gly Val Ser Leu Gln
740 745 750
Ala Asp Arg Arg Val Gln Asn Gln Arg Arg Arg Val His Met Thr Leu
755 760 765
Glu Leu Pro Trp Ser Ala Asp Arg Ala Ile Gln Gln Phe Gly Arg Thr
770 775 780
His Arg Ser Asn Gln Val Ser Ala Pro Glu Tyr Val Phe Leu Ile Ser
785 790 795 800
Glu Leu Ala Gly Glu Arg Arg Phe Ala Ser Ile Val Ala Lys Arg Leu
805 810 815
Glu Ser Leu Gly Ala Leu Thr His Gly Asp Arg Arg Ala Thr Glu Ser
820 825 830
Arg Asp Leu Ser Lys Tyr Asn Phe Glu Asn Lys Tyr Gly Thr Arg Ala
835 840 845
Leu His Cys Val Leu Thr Thr Ile Leu Ser Gln Thr Glu Asn Lys Val
850 855 860
Pro Val Pro Gln Gly Tyr Pro Gly Gly Val Pro Thr Phe Phe Arg Asp
865 870 875 880
Met Lys Gln Gly Leu Leu Ser Val Gly Ile Gly Gly Arg Glu Ser Arg
885 890 895
Asn Gly Cys Leu Asp Val Glu Lys Asp Cys Ser Ile Thr Lys Phe Leu
900 905 910
Asn Arg Ile Leu Gly Leu Glu Val His Lys Gln Asn Ala Leu Phe Gln
915 920 925

Tyr Phe Ser Asp Thr Phe Asp His Leu Ile Glu Met Asp Lys Arg Glu
930 935 940
Gly Lys Tyr Asp Met Gly Ile Leu Asp Leu Ala Pro Gly Ile Glu Glu
945 950 955 960
Ile Tyr Glu Glu Ser Gln Gln Val Phe Leu Ala Pro Gly His Pro Gln
965 970 975
Asp Gly Gln Val Val Phe Tyr Lys Ile Ser Val Asp Arg Gly Leu Lys
980 985 990
Trp Glu Asp Ala Phe Ala Lys Ser Leu Ala Leu Thr Gly Pro Tyr Asp
995 1000 1005
Gly Phe Tyr Leu Ser Tyr Lys Val Arg Gly Asn Lys Pro Ser Cys Leu
1010 1015 1020
Leu Ala Glu Gln Asn Arg Gly Gln Phe Phe Thr Val Tyr Lys Pro Asn
1025 1030 1035 1040
Ile Gly Arg Gln Ser Gln Leu Glu Ala Leu Asp Ser Leu Arg Arg Lys
1045 1050 1055
Phe His Arg Val Thr Ala Glu Glu Ala Lys Glu Pro Trp Glu Ser Gly
1060 1065 1070
Tyr Ala Leu Ser Leu Thr His Cys Ser His Ser Ala Trp Asn Arg His
1075 1080 1085
Cys Arg Leu Ala Gln Glu Gly Lys Asp Cys Leu Gln Gly Leu Arg Leu
1090 1095 1100
Arg His His Tyr Met Leu Cys Gly Ala Leu Leu Arg Val Trp Gly Arg
1105 1110 1115 1120
Ile Ala Ala Val Met Ala Asp Val Ser Ser Ser Ser Tyr Leu Gln Ile
1125 1130 1135
Val Arg Leu Lys Thr Lys Asp Arg Lys Lys Gln Val Gly Ile Lys Ile
1140 1145 1150
Pro Glu Gly Cys Val Arg Arg Val Leu Gln Glu Leu Arg Leu Met Asp

1155 1160 1165
Ala Asp Val Lys Arg Arg Gln Ala Pro Ala Leu Gly Cys Pro Ala Pro
1170 1175 1180
Pro Ala Pro Arg Pro Leu Ala Leu Pro Cys Gly Pro Gly Glu Val Leu
1185 1190 1195 1200
Asp Leu Thr Tyr Ser Pro Pro Ala Glu Ala Phe Pro Pro Pro Pro His
1205 1210 1215
Phe Ser Phe Pro Ala Pro Leu Ser Leu Asp Ala Gly Pro Gly Val Val
1220 1225 1230
Pro Leu Gly Thr Pro Asp Ala Gln Ala Asp Pro Ala Ala Leu Ala His
1235 1240 1245
Gln Gly Cys Asp Ile Asn Phe Lys Glu Val Leu Glu Asp Met Leu Arg
1250 1255 1260
Ser Leu His Ala Gly Pro Pro Ser Glu Gly Ala Leu Gly Glu Gly Ala
1265 1270 1275 1280
Gly Ala Gly Gly Ala Ala Gly Gly Gly Pro Glu Arg Gln Ser Val Ile
1285 1290 1295
Gln Phe Ser Pro Pro Phe Pro Gly Ala Gln Ala Pro Leu
1300 1305

<210> 2944

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2944

Met His Ile Ser Lys Leu Cys Pro Gly Ser Phe Ser Thr Phe Leu His
1 5 10 15

Ile Leu Phe Gln Ala Gly Val Gln Trp His Asp Leu Asn Ser Leu Gln
 20 25 30
 Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Phe Leu Ser Leu Leu Ser
 35 40 45
 Ser Trp Asp Tyr Arg His Ala Pro Pro His Pro Ala Asn Leu Cys Ile
 50 55 60
 Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr
 65 70 75 80
 Pro Asp Leu Val Ile Arg Arg Pro Leu Pro Pro Lys Val Leu Val His
 85 90 95
 Ile Leu Phe Leu Ser Phe Leu Leu Leu Pro Leu Ala Leu Pro Thr Pro
 100 105 110
 Lys Leu Cys Ser Leu Lys Asp Leu Thr Trp Leu Thr Ala Gly Leu Ser
 115 120 125
 Arg

<210> 2945

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2945

Met Trp Gly Gly Phe Ala Leu Val Ala Ile Gly Leu Gln Phe Gly Leu
 1 5 10 15
 Lys Met Thr Gln Phe Leu Val Leu Arg Trp Arg Gly Ile Ala Leu Lys
 20 25 30
 Phe Ala Cys Thr Arg Leu Ser Ala Ser Ile Tyr Met Thr Asp Ile Phe

35 40 45
 Val Thr His Arg Arg Cys Pro Trp Tyr Arg Val Tyr Ala Tyr Ile Ser
 50 55 60
 Ile Phe Ile Leu Gly Thr His Glu Leu Leu Leu Ile Ile Ser Leu Tyr
 65 70 75 80
 Leu Leu Glu Ser Val Phe Glu Lys Lys Lys Lys Asn Phe Cys Phe Asp
 85 90 95
 Leu Trp Trp Ile His Leu Leu Lys Ile Ile Asn Leu Glu Asp Ile Arg
 100 105 110
 Asn Asp Ile Gln Asn Lys Tyr Ser Glu Arg
 115 120

<210> 2946

<211> 396

<212> PRT

<213> Homo sapiens

<400> 2946

Met Leu Ala Lys Cys Leu Gln Leu Asn Val Lys Lys Gly Ser Phe Val
 1 5 10 15
 Ala Lys Ile Ile Lys Val Ile Asn Phe Tyr Leu Val Cys Thr Leu Thr
 20 25 30
 Ile Thr Leu Asn Ile Ile Met Lys Met Phe Val Pro His Lys Glu Asn
 35 40 45
 Gly His Met Leu Lys Phe Leu Glu Val Lys Phe Gly Leu Asn Met Thr
 50 55 60
 Lys Asn Phe Thr Met Asn Trp Leu Leu Cys Gln Glu Ser Leu Gln Ala
 65 70 75 80

Pro Ser Gln Asp Phe Phe Leu Arg Leu Thr Gln Ser Ser Leu Leu Pro
85 90 95
Phe Tyr Ile Leu Val Leu Ile Ile Cys Phe Leu Ser Met Leu Gln Val
100 105 110
Thr Phe Arg Arg Ile Asn Gly Lys Ser Leu Lys Glu Thr Val Thr Leu
115 120 125
Glu Asp Gly Arg Ile Gly Glu Arg Pro Glu Ile Ile Tyr His Val Ile
130 135 140
His Thr Ile Leu Leu Gly Ser Leu Ala Met Val Ile Glu Gly Leu Lys
145 150 155 160
Tyr Ile Trp Ile Pro Tyr Val Cys Met Leu Ala Ala Phe Gly Val Cys
165 170 175
Ser Pro Glu Leu Trp Met Thr Leu Phe Lys Trp Leu Arg Leu Arg Thr
180 185 190
Val His Pro Ile Leu Leu Ala Leu Ile Leu Ser Met Ala Val Pro Thr
195 200 205
Ile Ile Gly Leu Ser Leu Trp Lys Glu Phe Phe Pro Arg Leu Met Thr
210 215 220
Glu Leu Met Glu Leu Gln Glu Phe Tyr Asp Pro Asp Thr Val Glu Leu
225 230 235 240
Met Thr Trp Ile Lys Arg Gln Ala Pro Val Ala Ala Val Phe Ala Gly
245 250 255
Ser Pro Gln Leu Met Gly Ala Ile Lys Leu Cys Thr Gly Trp Met Val
260 265 270
Thr Ser Leu Pro Leu Tyr Asn Asp Asp Asp Leu Leu Lys Arg Asn Glu
275 280 285
Asn Ile Tyr Gln Ile Tyr Ser Lys Arg Ser Ala Glu Asp Ile Tyr Lys
290 295 300
Ile Leu Thr Ser Tyr Lys Ala Asn Tyr Leu Ile Val Glu Asp Ala Ile

305 310 315 320
 Cys Asn Glu Val Gly Pro Met Arg Gly Cys Arg Val Lys Asp Leu Leu
 325 330 335
 Asp Ile Ala Asn Gly His Met Val Cys Glu Glu Gly Asp Lys Leu Thr
 340 345 350
 Tyr Ser Lys Tyr Gly Arg Phe Cys His Glu Val Lys Ile Asn Tyr Ser
 355 360 365
 Pro Tyr Val Asn Tyr Phe Thr Arg Val Tyr Trp Asn Arg Ser Tyr Phe
 370 375 380
 Val Tyr Lys Ile Asn Thr Val Ile Ser Phe Gln Ser
 385 390 395

<210> 2947

<211> 531

<212> PRT

<213> Homo sapiens

<400> 2947

Met Arg Asn Leu Ala Thr Ile Phe Leu Ala Val Val Met Ala Leu Leu
 1 5 10 15
 Ser Leu His Cys Leu Ala Ala Phe Lys Arg Leu Glu His Lys Glu Val
 20 25 30
 Leu Val Gly Leu Leu Phe Leu Val Phe Pro Phe Ile Pro Ala Ser Asn
 35 40 45
 Leu Phe Phe Arg Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Met
 50 55 60
 Pro Ser Met Gly Tyr Cys Ile Leu Phe Val His Gly Leu Ser Lys Leu
 65 70 75 80

Cys Thr Trp Leu Asn Arg Cys Gly Ala Thr Thr Leu Ile Val Ser Thr			
	85	90	95
Val Leu Leu Leu Leu Leu Phe Ser Trp Lys Thr Val Lys Gln Asn Glu			
	100	105	110
Ile Trp Leu Ser Arg Glu Ser Leu Phe Arg Ser Gly Val Gln Thr Leu			
	115	120	125
Pro His Asn Ala Lys Val His Tyr Asn Tyr Ala Asn Phe Leu Lys Asp			
	130	135	140
Gln Gly Arg Asn Lys Glu Ala Ile Tyr His Tyr Arg Thr Ala Leu Lys			
	145	150	155
Leu Tyr Pro Arg His Ala Ser Ala Leu Asn Asn Leu Gly Thr Leu Thr			
	165	170	175
Arg Asp Thr Ala Glu Ala Lys Met Tyr Tyr Gln Arg Ala Leu Gln Leu			
	180	185	190
His Pro Gln His Asn Arg Ala Leu Phe Asn Leu Gly Asn Leu Leu Lys			
	195	200	205
Ser Gln Glu Lys Lys Glu Glu Ala Ile Thr Leu Leu Lys Asp Ser Ile			
	210	215	220
Lys Tyr Gly Pro Glu Phe Ala Asp Ala Tyr Ser Ser Leu Ala Ser Leu			
	225	230	235
Leu Ala Glu Gln Glu Arg Phe Lys Glu Ala Glu Glu Ile Tyr Gln Thr			
	245	250	255
Gly Ile Lys Asn Cys Pro Asp Ser Ser Asp Leu His Asn Asn Tyr Gly			
	260	265	270
Val Phe Leu Val Asp Thr Gly Leu Pro Glu Lys Ala Val Ala His Tyr			
	275	280	285
Gln Gln Ala Ile Lys Leu Ser Pro Ser His His Val Ala Met Val Asn			
	290	295	300
Leu Gly Arg Leu Tyr Arg Ser Leu Gly Glu Asn Ser Met Ala Glu Glu			

305 310 315 320
Trp Tyr Lys Arg Ala Leu Gln Val Ala His Lys Ala Glu Ile Leu Ser
 325 330 335
Pro Leu Gly Ala Leu Tyr Tyr Asn Thr Gly Arg Tyr Glu Glu Ala Leu
 340 345 350
Gln Ile Tyr Gln Glu Ala Ala Ala Leu Gln Pro Ser Gln Arg Glu Leu
 355 360 365
Arg Leu Ala Leu Ala Gln Val Leu Ala Val Met Gly Gln Thr Lys Glu
 370 375 380
Ala Glu Lys Met Thr Asn His Ile Val Ser Glu Glu Thr Gly Cys Leu
385 390 395 400
Glu Cys Tyr Arg Leu Leu Ser Ala Ile Tyr Ser Lys Gln Glu Asn His
 405 410 415
Asp Lys Ala Leu Asp Ala Ile Asp Lys Ala Leu Gln Leu Lys Pro Lys
 420 425 430
Asp Pro Lys Val Ile Ser Glu Leu Phe Phe Thr Lys Gly Asn Gln Leu
 435 440 445
Arg Glu Gln Asn Leu Leu Asp Lys Ala Phe Glu Ser Tyr Arg Val Ala
 450 455 460
Val Gln Leu Asn Pro Asp Gln Ala Gln Ala Trp Met Asn Met Gly Gly
465 470 475 480
Ile Gln His Ile Lys Gly Lys Tyr Val Ser Ala Arg Ala Tyr Tyr Glu
 485 490 495
Arg Ala Leu Gln Leu Val Pro Asp Ser Lys Leu Leu Lys Glu Asn Leu
 500 505 510
Ala Lys Leu Asp Arg Leu Glu Lys Arg Leu Gln Glu Val Arg Glu Lys
 515 520 525
Asp Gln Thr
530

<210> 2948

<211> 409

<212> PRT

<213> Homo sapiens

<400> 2948

Met Arg Arg Tyr Leu Arg Val Val Val Leu Cys Val Ala Cys Gly Phe
 1 5 10 15
 Cys Ser Leu Leu Tyr Ala Phe Ser Gln Leu Ala Val Ser Leu Glu Glu
 20 25 30
 Gly Thr Gly Gly Gly Gly Gly Lys Pro Gln Ala Ala Val Ala Ser Trp
 35 40 45
 Leu Ala Gly Gly Gly Arg Gly Ala Val Arg Gly Ala Gly Val Ala Gly
 50 55 60
 Pro Ala Ala His Pro Gly Val Ser Asp Arg Tyr Ser Leu Lys Ile Gln
 65 70 75 80
 Pro Val Glu Lys Met His Leu Ala Val Val Ala Cys Gly Glu Arg Leu
 85 90 95
 Glu Glu Thr Met Thr Met Leu Lys Ser Ala Ile Ile Phe Ser Ile Lys
 100 105 110
 Pro Leu Gln Phe His Ile Phe Ala Glu Asp Gln Leu His His Ser Phe
 115 120 125
 Lys Gly Arg Leu Asp Asn Trp Ser Phe Leu Gln Thr Phe Asn Tyr Thr
 130 135 140
 Leu Tyr Pro Ile Thr Phe Pro Ser Glu Asn Ala Ala Glu Trp Lys Lys
 145 150 155 160
 Leu Phe Lys Pro Cys Ala Ser Gln Arg Leu Phe Leu Pro Leu Ile Leu

165	170	175
Lys Glu Val Asp Ser Leu Leu Tyr Val Asp Thr Asp Ile Leu Phe Leu		
180	185	190
Arg Pro Val Asp Asp Ile Trp Ser Leu Leu Lys Lys Phe Asn Ser Thr		
195	200	205
Gln Ile Ala Ala Met Ala Pro Glu His Glu Glu Pro Arg Ile Gly Trp		
210	215	220
Tyr Asn Arg Phe Ala Arg His Pro Tyr Tyr Gly Lys Thr Gly Val Asn		
225	230	235
240		
Ser Gly Val Met Leu Met Asn Met Thr Arg Met Arg Arg Lys Tyr Phe		
245	250	255
Lys Asn Asp Met Thr Thr Val Arg Leu Gln Trp Gly Asp Ile Leu Met		
260	265	270
Pro Leu Leu Lys Lys Tyr Lys Leu Asn Ile Thr Trp Gly Asp Gln Asp		
275	280	285
Leu Leu Asn Ile Val Phe Phe His Asn Pro Glu Ser Leu Phe Val Phe		
290	295	300
Pro Cys Gln Trp Asn Tyr Arg Pro Asp His Cys Ile Tyr Gly Ser Asn		
305	310	315
320		
Cys Gln Glu Ala Glu Glu Gly Gly Ile Phe Ile Leu His Gly Asn Arg		
325	330	335
Gly Val Tyr His Asp Asp Lys Gln Pro Ala Phe Arg Ala Val Tyr Glu		
340	345	350
Ala Leu Arg Asn Cys Ser Phe Glu Asp Asp Asn Ile Arg Ser Leu Leu		
355	360	365
Lys Pro Leu Glu Leu Glu Leu Gln Lys Thr Val His Thr Tyr Cys Gly		
370	375	380
Lys Ile Tyr Lys Ile Phe Ile Lys Gln Leu Ala Lys Ser Val Arg Asp		
385	390	395
400		

Arg Tyr Ala Arg Ser Pro Lys Glu Lys

405

<210> 2949

<211> 336

<212> PRT

<213> Homo sapiens

<400> 2949

Met Asn Asn Asn Thr Thr Cys Ile Gln Pro Ser Met Ile Ser Ser Met

1 5 10 15

Ala Leu Pro Ile Ile Tyr Ile Leu Leu Cys Ile Val Gly Val Phe Gly

20 25 30

Asn Thr Leu Ser Gln Trp Ile Phe Leu Thr Lys Ile Gly Lys Lys Thr

35 40 45

Ser Thr His Ile Tyr Leu Ser His Leu Val Thr Ala Asn Leu Leu Val

50 55 60

Cys Ser Ala Met Pro Phe Met Ser Ile Tyr Phe Leu Lys Gly Phe Gln

65 70 75 80

Trp Glu Tyr Gln Ser Ala Gln Cys Arg Val Val Asn Phe Leu Gly Thr

85 90 95

Leu Ser Met His Ala Ser Met Phe Val Ser Leu Leu Ile Leu Ser Trp

100 105 110

Ile Ala Ile Ser Arg Tyr Ala Thr Leu Met Gln Lys Asp Ser Ser Gln

115 120 125

Glu Thr Thr Ser Cys Tyr Glu Lys Ile Phe Tyr Gly His Leu Leu Lys

130 135 140

Lys Phe Arg Gln Pro Asn Phe Ala Arg Lys Leu Cys Ile Tyr Ile Trp

145 150 155 160
Gly Val Val Leu Gly Ile Ile Ile Pro Val Thr Val Tyr Tyr Ser Val
 165 170 175
Ile Glu Ala Thr Glu Gly Glu Glu Ser Leu Cys Tyr Asn Arg Gln Met
 180 185 190
Glu Leu Gly Ala Met Ile Ser Gln Ile Ala Gly Leu Ile Gly Thr Thr
 195 200 205
Phe Ile Gly Phe Ser Phe Leu Val Val Leu Thr Ser Tyr Tyr Ser Phe
 210 215 220
Val Ser His Leu Arg Lys Ile Arg Thr Cys Thr Ser Ile Met Glu Lys
225 230 235 240
Asp Leu Thr Tyr Ser Ser Val Lys Arg His Leu Leu Val Ile Gln Ile
 245 250 255
Leu Leu Ile Val Cys Phe Leu Pro Tyr Ser Ile Phe Lys Pro Ile Phe
 260 265 270
Tyr Val Leu His Gln Arg Asp Asn Cys Gln Gln Leu Asn Tyr Leu Ile
 275 280 285
Glu Thr Lys Asn Ile Leu Thr Cys Leu Ala Ser Ala Arg Ser Ser Thr
 290 295 300
Asp Pro Ile Ile Phe Leu Leu Leu Asp Lys Thr Phe Lys Lys Thr Leu
305 310 315 320
Tyr Asn Leu Phe Thr Lys Ser Asn Ser Ala His Met Gln Ser Tyr Gly
 325 330 335

<210> 2950

<211> 373

<212> PRT

<213> Homo sapiens

<400> 2950

Met Leu Lys Arg Lys Pro Ser Asn Val Ser Glu Lys Glu Lys His Gln
 1 5 10 15
 Lys Pro Lys Arg Ser Ser Ser Phe Gly Asn Phe Asp Arg Phe Arg Asn
 20 25 30
 Asn Ser Leu Ser Lys Pro Asp Asp Ser Thr Glu Ala His Glu Gly Asp
 35 40 45
 Pro Thr Asn Gly Ser Gly Glu Gln Ser Lys Thr Ser Asn Asn Gly Gly
 50 55 60
 Gly Leu Gly Lys Lys Met Arg Ala Ile Ser Trp Thr Met Lys Lys Lys
 65 70 75 80
 Val Gly Lys Lys Tyr Ile Lys Ala Leu Ser Glu Glu Lys Asp Glu Glu
 85 90 95
 Asp Gly Glu Asn Ala His Pro Tyr Gly Asn Ser Asp Pro Val Ile Gly
 100 105 110
 Thr His Thr Glu Lys Val Ser Leu Lys Ala Ser Asp Ser Met Asp Ser
 115 120 125
 Leu Tyr Ser Gly Gln Ser Ser Ser Ser Gly Ile Thr Ser Cys Ser Asp
 130 135 140
 Gly Thr Ser Asn Arg Asp Ser Phe Arg Leu Asp Asp Asp Gly Pro Tyr
 145 150 155 160
 Ser Gly Pro Phe Cys Gly Arg Ala Arg Val His Thr Asp Phe Thr Pro
 165 170 175
 Ser Pro Tyr Asp Thr Asp Ser Leu Lys Ile Lys Lys Gly Asp Ile Ile
 180 185 190
 Asp Ile Ile Cys Lys Thr Pro Met Gly Met Trp Thr Gly Met Leu Asn
 195 200 205
 Asn Lys Val Gly Asn Phe Lys Phe Ile Tyr Val Asp Val Ile Ser Glu

210	215	220
Glu Glu Ala Ala Pro Lys Lys Ile Lys Ala Asn Arg Arg Ser Asn Ser		
225	230	235
Lys Lys Ser Lys Thr Leu Gln Glu Phe Leu Glu Arg Ile His Leu Gln		
245	250	255
Glu Tyr Thr Ser Thr Leu Leu Leu Asn Gly Tyr Glu Thr Leu Glu Asp		
260	265	270
Leu Lys Asp Ile Lys Glu Ser His Leu Ile Glu Leu Asn Ile Glu Asn		
275	280	285
Pro Asp Asp Arg Arg Arg Leu Leu Ser Ala Ala Glu Asn Phe Leu Glu		
290	295	300
Glu Glu Ile Ile Gln Glu Gln Glu Asn Glu Pro Glu Pro Leu Ser Leu		
305	310	315
Ser Ser Asp Ile Ser Leu Asn Lys Ser Gln Leu Asp Asp Cys Pro Arg		
325	330	335
Asp Ser Gly Cys Tyr Ile Ser Ser Gly Asn Ser Asp Asn Gly Lys Glu		
340	345	350
Asp Leu Glu Ser Glu Asn Leu Ser Asp Met Val His Lys Ile Ile Ile		
355	360	365
Thr Glu Pro Ser Asp		
370		

<210> 2951

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2951

Met His His Thr Glu Gly Pro His Gly Thr Arg Pro Leu Arg Pro Gly
 1 5 10 15
 Ile Leu Met Gln Lys Thr His Ala Thr Phe Leu Arg Ile Ala Leu Thr
 20 25 30
 Asn Thr Gln Arg Asp Val Lys Gly Trp Thr Ser Phe His Thr Pro Ala
 35 40 45
 Asp Ala Glu Leu Gly Val Ala Ser His Arg Pro Gly Ser Val Leu Gln
 50 55 60
 Ala Arg Pro Leu Leu Ala Val Arg Leu Trp Ala Gly Lys Gln Lys Ala
 65 70 75 80
 Gly Lys Glu Leu Ser Cys Thr Cys Phe Leu Ile Val Phe Ser Pro Thr
 85 90 95
 Ile Leu His Ile Ser Gly Arg His Ile Leu Val Ser Arg Asn Ser
 100 105 110

<210> 2952

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2952

Met Asn Arg Cys Ala Arg Cys Arg Ile Glu Asn Cys Asp Ser Cys Phe
 1 5 10 15
 Ser Lys Asp Phe Cys Thr Lys Cys Lys Val Gly Phe Tyr Leu His Arg
 20 25 30
 Gly Arg Cys Phe Asp Glu Cys Pro Asp Gly Phe Ala Pro Leu Glu Glu
 35 40 45
 Thr Met Glu Cys Val Glu Gly Cys Glu Val Gly His Trp Ser Glu Trp

50 55 60
 Gly Thr Cys Ser Arg Asn Asn Arg Thr Cys Gly Phe Lys Trp Gly Leu
 65 70 75 80
 Glu Thr Arg Thr Arg Gln Ile Val Lys Lys Pro Val Lys Asp Thr Ile
 85 90 95
 Leu Cys Pro Thr Ile Ala Glu Ser Arg Arg Cys Lys Met Thr Met Arg
 100 105 110
 His Cys Pro Gly Gly Lys Arg Thr Pro Lys Ala Lys Glu Lys Arg Asn
 115 120 125
 Lys Lys Lys Lys Arg Lys Leu Ile Glu Arg Ala Gln Glu Gln His Ser
 130 135 140
 Val Phe Leu Ala Thr Asp Arg Ala Asn Gln
 145 150

<210> 2953

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2953

Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro Ser Asn Gly Val Glu
 1 5 10 15
 Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr Ser Lys Asn Asp Glu
 20 25 30
 Asp Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg Gly Ala Leu Leu Lys
 35 40 45
 Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val Thr Lys His Gln Leu
 50 55 60

Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys Lys Gly His Ile Asp
 65 70 75 80
 Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly Pro Ser Met Gly Ala
 85 90 95
 Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp Leu Lys Thr Ser Lys
 100 105 110
 Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln Ser Ala Gln Gln Trp
 115 120 125
 Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala
 130 135

<210> 2954

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2954

Met Val Thr Ser Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val
 1 5 10 15
 Gln Thr Arg Arg Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser
 20 25 30
 Thr Pro Val Ser Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val
 35 40 45
 Asp Thr Gln Ala Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser
 50 55 60
 Ser Trp Gly Gln Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val
 65 70 75 80
 Gln His Arg Gln Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro

	85	90	95
Ser Glu Gln Cys Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys			
100	105	110	
Trp Ser Glu Ala Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu			
115	120	125	
Cys Thr Ala Thr Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu			
130	135	140	
Cys Val His Ala Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser			
145	150	155	160
Trp Gly Pro Arg Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys			
165	170	175	
Glu Asn Met Glu Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys			
180	185	190	
Gln Leu Lys Leu Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly			
195	200	205	
Thr Cys Gly Lys Ala			
210			

<210> 2955

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2955

Met Cys Val Arg Arg Ser Leu Val Gly Leu Thr Phe Cys Thr Cys Tyr			
1	5	10	15
Leu Ala Ser Tyr Leu Thr Asn Lys Tyr Val Leu Ser Val Leu Lys Phe			
20	25	30	

Thr Tyr Pro Thr Leu Phe Gln Gly Ser His Val Leu Val Trp Leu Pro
 35 40 45
 Ala Ser Val Leu Phe Val Gly Ile Ile Tyr Ala Gly Ser Arg Ala Leu
 50 55 60
 Ser Arg Leu Ala Ile Pro Val Phe Leu Thr Leu His Asn Val Ala Glu
 65 70 75 80
 Val Ile Ile Cys Gly Tyr Gln Lys Cys Phe Gln Lys Glu Lys Thr Ser
 85 90 95
 Pro Ala Lys Ile Cys Arg Leu His Leu Glu Arg Thr Arg Gln Asn Gln
 100 105 110
 Thr Ser Arg Leu Ser Ser Cys Leu Lys Gly Asp
 115 120

<210> 2956

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2956

Met Ile Ser Thr Arg Tyr Arg Arg Arg Arg Asp Ala Pro Arg Gly Pro
 1 5 10 15
 Gly Arg Cys Pro Pro His Pro Thr Arg Pro Arg Gly Pro Gly Arg Lys
 20 25 30
 Arg Gly Ala Ala Gly Ser Pro Gly Ala Ala Pro Ser Ala Ser Arg Arg
 35 40 45
 Pro Glu Phe Pro Lys Pro Leu Arg Val Leu Pro Trp Arg Glu Arg Gly
 50 55 60
 Arg Gly Gly Arg Glu Trp Pro Met Ser Leu Arg Ser Pro Leu Pro Thr

65 70 75 80
Ser Ala Cys Gly Trp Gly Glu Ser Gly Arg Arg Ala Gly Pro Gly Arg
 85 90 95
Ala Pro Cys Gly Pro Arg Thr Gly Leu Ser Ala Arg Ala Val Leu Leu
 100 105 110
Ser Ala Arg Ala Arg Leu Val Ser Ser Val His Ala Val Leu Ala Thr
 115 120 125
Gly Ser Gly Ile Val Ile Ile Arg Ser Cys Asp Asp Val Ile Thr Gly
 130 135 140
Arg His Trp Leu Ala Arg Glu Tyr Val Trp Phe Leu Ile Pro Tyr Met
145 150 155 160
Ile Tyr Asp Ser Tyr Ala Met Tyr Leu Cys Glu Trp Cys Arg Thr Arg
 165 170 175
Asp Gln Asn Arg Ala Pro Ser Leu Thr Leu Arg Asn Phe Leu Ser Arg
 180 185 190
Asn Arg Leu Met Ile Thr His His Ala Val Ile Leu Phe Val Leu Val
 195 200 205
Pro Val Ala Gln Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly
 210 215 220
Cys Ile Phe Thr Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg
225 230 235 240
Val Leu Ile Gln Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn
 245 250 255
Gly Ile Leu Thr Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe
 260 265 270
Pro Phe Met Tyr Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu
 275 280 285
Gln Val Pro Phe Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe
 290 295 300

Leu Val Ala Pro Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala
 305 310 315 320

Val Arg Leu Phe Asp Thr Pro Gln Ala Lys Lys Asp Gly
 325 330

<210> 2957

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2957

Met Tyr Arg Gln Arg Phe Leu Tyr Ser Leu Tyr Arg His Thr His Trp
 1 5 10 15

Val Arg Cys Ala Lys Phe Ser Pro Asp Gly Arg Leu Ile Val Ser Cys
 20 25 30

Ser Glu Asp Lys Thr Ile Lys Ile Trp Asp Thr Thr Asn Lys Gln Cys
 35 40 45

Val Asn Asn Phe Ser Asp Ser Val Gly Asp Leu Ser Leu Leu Phe His
 50 55 60

Phe Gln Lys Val Glu Ser Tyr Leu His Gln Glu Val Gln Thr His Arg
 65 70 75 80

Ser Tyr Tyr Gly Gly Leu Thr Leu Met Asn Cys Ile Val Lys Val Leu
 85 90 95

Pro Lys Glu Ile Ser Lys Asp Tyr Ile Leu Ile His His His Ile Phe
 100 105 110

Leu Ile Ser Thr Gln Glu His His Ile Pro Met Arg Lys Lys Leu Arg
 115 120 125

Leu

<210> 2958

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2958

Met	Val	Leu	Cys	His	Ala	Asn	Lys	Ala	Glu	Arg	Val	Leu	Val	Phe	Pro
1					5					10				15	
Ser	Gly	Ser	Leu	Leu	Thr	Lys	Ser	Ser	Glu	Thr	His	Ile	Arg	Phe	Leu
				20					25					30	
Gln	Cys	Ser	Gln	Arg	Gln	Gly	Trp	Gln	Leu	Ala	Gly	Tyr	Gly	Gln	Val
			35				40						45		
Trp	Arg	Lys	Glu	Ser	Ser	Tyr	Lys	Pro	Gly	Gly	Arg	Asn	Gly	Lys	Leu
		50					55					60			
Gly	Thr	Gln	Lys	Gly	Pro	Arg	Asn	Gly	Gln	Cys	His	Thr	Arg	Leu	Gly
65					70					75				80	
Leu	Val	Leu	Trp	Val	Met	Trp	Pro	Pro	Leu	Thr	Ala	His	Val	Arg	Trp
				85					90					95	
Ser	Gln	Phe	Arg	Ala	Arg	Arg	Trp	Gly	Cys	Thr	Gly	Glu	Gly	Leu	Ala
				100					105					110	
Leu	Cys	Gln	Ala	Leu	Gly	Val	His	Gly	Arg	Gly	Ala	Gly	Ser	Val	Pro
		115					120					125			
Gly	Ala	Gly	Gly	Ala	Arg	Glu	Arg	Gly	Trp	Leu	Cys	Ala	Arg	Arg	Cys
		130					135					140			
Gly	Cys	Thr	Gly	Glu	Gly	Leu	Ala	Leu	Cys	Gln	Ala	Leu	Gly	Val	His
145						150					155			160	

Gly Arg Gly Ala Gly Phe Trp Ala Ala Gly Thr Val His Gly Gln Ala

165

170

175

Val His Ser Glu Val Arg Gly Pro Pro Lys Ser Arg Ser Lys Leu

180

185

190

<210> 2959

<211> 467

<212> PRT

<213> Homo sapiens

<400> 2959

Met Arg Val Ser Ser His Lys Gln Pro Ala Leu Lys Ala Thr Ser Asp

1

5

10

15

Lys Glu Asn Ser Val Pro Asn Met Ala Thr Glu Thr Lys Asp Glu Gln

20

25

30

Ile Ser Gly Thr Val Ser Ser Gln Lys Gln Pro Ala Leu Lys Ala Thr

35

40

45

Ser Asp Lys Lys Asp Ser Val Ser Asn Ile Pro Thr Glu Ile Lys Asp

50

55

60

Gly Gln Gln Ser Gly Thr Val Ser Ser Gln Lys Gln Pro Ala Trp Lys

65

70

75

80

Ala Thr Ser Val Lys Lys Asp Ser Val Ser Asn Ile Ala Thr Glu Ile

85

90

95

Lys Asp Gly Gln Ile Arg Gly Thr Val Ser Ser Gln Arg Gln Pro Ala

100

105

110

Leu Lys Ala Thr Gly Asp Glu Lys Asp Ser Val Ser Asn Ile Ala Arg

115

120

125

Glu Ile Lys Asp Gly Glu Lys Ser Gly Thr Val Ser Pro Gln Lys Gln

130 135 140
Ser Ala Gln Lys Val Ile Phe Lys Lys Lys Val Ser Leu Leu Asn Ile
145 150 155 160
Ala Thr Arg Ile Thr Ser Gly Trp Lys Ser Gly Thr Glu Tyr Pro Glu
165 170 175
Asn Leu Pro Thr Leu Lys Ala Thr Ile Glu Asn Lys Asn Ser Val Leu
180 185 190
Asn Thr Ala Thr Lys Met Lys Asp Val Gln Thr Ser Thr Pro Glu Gln
195 200 205
Asp Leu Glu Met Ala Ser Glu Gly Glu Gln Lys Arg Leu Glu Glu Tyr
210 215 220
Glu Asn Asn Gln Pro Gln Val Lys Asn Gln Ile His Ser Arg Asp Asp
225 230 235 240
Leu Asp Asp Ile Ile Gln Ser Ser Gln Thr Val Ser Glu Asp Gly Asp
245 250 255
Ser Leu Cys Cys Asn Cys Lys Asn Val Ile Leu Leu Ile Asp Gln His
260 265 270
Glu Met Lys Cys Lys Asp Cys Val His Leu Leu Lys Ile Lys Lys Thr
275 280 285
Phe Cys Leu Cys Lys Arg Leu Thr Glu Leu Lys Asp Asn His Cys Glu
290 295 300
Gln Leu Arg Val Lys Ile Arg Lys Leu Lys Asn Lys Ala Ser Val Leu
305 310 315 320
Gln Lys Arg Leu Ser Glu Lys Glu Glu Ile Lys Ser Gln Leu Lys His
325 330 335
Glu Thr Leu Glu Leu Glu Lys Glu Leu Cys Ser Leu Arg Phe Ala Ile
340 345 350
Gln Gln Glu Lys Lys Lys Arg Arg Asn Val Glu Glu Val His Gln Lys
355 360 365

Val Arg Glu Lys Leu Arg Ile Thr Glu Glu Gln Tyr Arg Ile Glu Ala
 370 375 380

Asp Val Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu Val Glu
 385 390 395 400

Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr Asp Glu
 405 410 415

Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu Ile Ala
 420 425 430

Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu Glu Lys
 435 440 445

Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu Asp Leu
 450 455 460

Gln Lys Ala
 465

<210> 2960

<211> 202

<212> PRT

<213> Homo sapiens

<400> 2960

Met His Ser Glu Pro Gly Ala Arg Leu Val Leu Thr Leu Gln Thr Leu
 1 5 10 15

Ser Arg Ala Leu Ser Asn Leu Lys Ala Cys Trp Gly Cys Asn Val Thr
 20 25 30

Phe Thr His Ala Gly Pro Phe Gln Lys Ser Ala Arg Ser Cys Asn Trp
 35 40 45

Cys Tyr Phe Ser Cys Ser Gly Thr Met Cys Ser Thr Thr Gly Val Ser

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ser Arg Ala Leu Ser Asn Leu Lys Ala Cys Trp Gly Cys Asn Val Ser
20 25 30
Phe Thr His Ala Gly Pro Phe Gln Lys Ser Ala Arg Ser Cys Asn Trp
35 40 45
Cys Tyr Phe Ser Cys Ser Gly Thr Met Cys Ser Thr Thr Gly Val Ser
50 55 60
Ala Leu Pro Lys Ser Lys Phe His Leu Ser Ala Lys Cys Arg Gly Ile
65 70 75 80
Cys Phe Leu Leu Ser Ser His Arg Ile Val Gly His Leu Phe Ala Gly
85 90 95
Leu Leu Arg Asp Phe Leu Ala Ile Tyr Leu Gln Ala Phe Phe Pro Ser
100 105 110
Pro Lys Phe Leu Gly Trp Leu Cys Leu Leu Lys Glu Pro Val Phe Thr
115 120 125
Lys Leu His Ser Gly Ala Ser Val Arg Cys Leu Arg Ser Tyr Cys Arg
130 135 140
Pro Phe Arg Thr Pro Ser Gln Glu Arg Thr Leu Gln Pro Leu Ala Arg
145 150 155 160
Asp Ser Thr Phe Phe Leu Ile Leu Phe Leu Thr Leu Leu Leu Leu Leu
165 170 175
Leu Pro Thr Asn Ser Ile Ser Phe Phe Phe Leu Phe Leu Ser Phe Ser
180 185 190
Tyr Ser Ser Phe Pro Pro Ser Leu Ser Cys
195 200

<210> 2962

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2962

Met Arg Met Lys Gly Tyr Lys Ala Leu Pro Pro Phe Gln Leu Pro Thr
 1 5 10 15
 Cys Ser Ser Ser Thr Pro Leu Arg Phe Gly Pro Pro Arg Thr Asn Glu
 20 25 30
 Val His Thr Leu Trp Met Arg Lys Arg Gly Ser Trp Leu Ala Ser Leu
 35 40 45
 Leu Pro Val Ile Gln Phe Glu Asp Ile Leu Thr Leu Gly Lys Asp Glu
 50 55 60
 Val Leu Lys Pro Gln Leu Leu Ser Thr Arg Ser His Ser Ser Trp Gly
 65 70 75 80
 Arg Gln Arg Gly Lys Ser Leu Ser Lys Val Tyr Pro Ala Ser Leu Arg
 85 90 95
 Phe Ile Asp Leu His Lys Arg Gln Cys Ser Gly Lys Gly Arg Gly Pro
 100 105 110
 Gln Lys Gly Ala Trp Gln Asp Arg Gly Cys
 115 120

<210> 2963

<211> 939

<212> PRT

<213> Homo sapiens

<400> 2963

Met Ala Pro Gln Met Tyr Glu Phe His Leu Pro Leu Ser Pro Glu Glu
 1 5 10 15

Leu Leu Lys Ser Gly Gly Val Asn Gln Tyr Val Val Gln Glu Val Leu
 20 25 30
 Ser Ile Lys His Leu Pro Pro Gln Leu Arg Ala Phe Gln Ala Ala Phe
 35 40 45
 Arg Ala Gln Gly Pro Leu Ala Met Leu Gln His Phe Asp Thr Ile Tyr
 50 55 60
 Ser Ile Leu His Leu Val Thr Gly Cys Cys Tyr Arg Leu Leu Glu Asn
 65 70 75 80
 Pro Thr Ile Asn His Gln Lys Asn Arg Pro Thr Arg Glu Ala Ile Thr
 85 90 95
 His Leu Leu Gly Val Ala Leu Thr Arg Tyr Asn His Met Leu Ser Ala
 100 105 110
 Thr Val Lys Ile Ile Gln Met Leu Gln His Phe Glu His Leu Ala Pro
 115 120 125
 Val Leu Val Ala Ala Val Ser Leu Trp Ala Thr Asp Tyr Gly Met Lys
 130 135 140
 Ser Ile Val Gly Glu Ile Val Arg Glu Ile Gly Gln Lys Cys Pro Gln
 145 150 155 160
 Glu Leu Ser Arg Asp Pro Ser Gly Thr Lys Gly Phe Ala Ala Phe Leu
 165 170 175
 Thr Glu Leu Ala Glu Arg Val Pro Ala Ile Leu Met Ser Ser Met Cys
 180 185 190
 Ile Leu Leu Asp His Leu Asp Gly Glu Asn Tyr Met Met Arg Asn Ala
 195 200 205
 Val Leu Ala Ala Met Ala Glu Met Val Leu Gln Val Leu Ser Gly Asp
 210 215 220
 Gln Leu Glu Ala Ala Ala Arg Asp Thr Arg Asp Gln Phe Leu Asp Thr
 225 230 235 240
 Leu Gln Ala His Gly His Asp Val Asn Ser Phe Val Arg Ser Arg Val

245 250 255
Leu Gln Leu Phe Thr Arg Ile Val Gln Gln Lys Ala Leu Pro Leu Thr
260 265 270
Arg Phe Gln Ala Val Val Ala Leu Ala Val Gly Arg Leu Ala Asp Lys
275 280 285
Ser Val Leu Val Cys Lys Asn Ala Ile Gln Leu Leu Ala Ser Phe Leu
290 295 300
Ala Asn Asn Pro Phe Ser Cys Lys Leu Ser Asp Ala Asp Leu Ala Gly
305 310 315 320
Pro Leu Gln Lys Glu Thr Gln Lys Leu Gln Glu Met Arg Ala Gln Arg
325 330 335
Arg Thr Ala Ala Ala Ser Ala Val Leu Asp Pro Glu Glu Glu Trp Glu
340 345 350
Ala Met Leu Pro Glu Leu Lys Ser Thr Leu Gln Gln Leu Leu Gln Leu
355 360 365
Pro Gln Gly Glu Glu Glu Ile Pro Glu Gln Ile Ala Asn Thr Glu Thr
370 375 380
Thr Glu Asp Val Lys Gly Arg Ile Tyr Gln Leu Leu Ala Lys Ala Ser
385 390 395 400
Tyr Lys Lys Ala Ile Ile Leu Thr Arg Glu Ala Thr Gly His Phe Gln
405 410 415
Glu Ser Glu Pro Phe Ser His Ile Asp Pro Glu Glu Ser Glu Glu Thr
420 425 430
Arg Leu Leu Asn Ile Leu Gly Leu Ile Phe Lys Gly Pro Ala Ala Ser
435 440 445
Thr Gln Glu Lys Asn Pro Arg Glu Ser Thr Gly Asn Met Val Thr Gly
450 455 460
Gln Thr Val Cys Lys Asn Lys Pro Asn Met Ser Asp Pro Glu Glu Ser
465 470 475 480

Arg Gly Asn Asp Glu Leu Val Lys Gln Glu Met Leu Val Gln Tyr Leu
485 490 495
Gln Asp Ala Tyr Ser Phe Ser Arg Lys Ile Thr Glu Ala Ile Gly Ile
500 505 510
Ile Ser Lys Met Met Tyr Glu Asn Thr Thr Thr Val Val Gln Glu Val
515 520 525
Ile Glu Phe Phe Val Met Val Phe Gln Phe Gly Val Pro Gln Ala Leu
530 535 540
Phe Gly Val Arg Arg Met Leu Pro Leu Ile Trp Ser Lys Glu Pro Gly
545 550 555 560
Val Arg Glu Ala Val Leu Asn Ala Tyr Arg Gln Leu Tyr Leu Asn Pro
565 570 575
Lys Gly Asp Ser Ala Arg Ala Lys Ala Gln Ala Leu Ile Gln Asn Leu
580 585 590
Ser Leu Leu Leu Val Asp Ala Ser Val Gly Thr Ile Gln Cys Leu Glu
595 600 605
Glu Ile Leu Cys Glu Phe Val Gln Lys Asp Glu Leu Lys Pro Ala Val
610 615 620
Thr Gln Leu Leu Trp Glu Arg Ala Thr Glu Lys Val Ala Cys Cys Pro
625 630 635 640
Leu Glu Arg Cys Ser Ser Val Met Leu Leu Gly Met Met Ala Arg Gly
645 650 655
Lys Pro Glu Ile Val Gly Ser Asn Leu Asp Thr Leu Val Ser Ile Gly
660 665 670
Leu Asp Glu Lys Phe Pro Gln Asp Tyr Arg Leu Ala Gln Gln Val Cys
675 680 685
His Ala Ile Ala Asn Ile Ser Asp Arg Arg Lys Pro Ser Leu Gly Lys
690 695 700
Arg His Pro Pro Phe Arg Leu Pro Gln Glu His Arg Leu Phe Glu Arg

705	710	715	720
Leu Arg Glu Thr Val Thr Lys Gly Phe Val His Pro Asp Pro Leu Trp			
725	730	735	
Ile Pro Phe Lys Glu Val Ala Val Thr Leu Ile Tyr Gln Leu Ala Glu			
740	745	750	
Gly Pro Glu Val Ile Cys Ala Gln Ile Leu Gln Gly Cys Ala Lys Gln			
755	760	765	
Ala Leu Glu Lys Leu Glu Glu Lys Arg Thr Ser Gln Glu Asp Pro Lys			
770	775	780	
Glu Ser Pro Ala Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser			
785	790	795	800
Leu Ala Gly Asp Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala			
805	810	815	
Val Ser Gly Glu Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu			
820	825	830	
His Lys Thr Lys Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr			
835	840	845	
Met Glu Glu Glu Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu			
850	855	860	
Ala Glu Leu Ile Arg Gly Ile Cys Gly Met Glu Leu Leu Asp Gly Lys			
865	870	875	880
Gln Thr Leu Ala Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn			
885	890	895	
Pro Gly Leu Tyr Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala			
900	905	910	
Leu Gly Lys Phe Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln His			
915	920	925	
Phe Ala Ile Pro Arg Arg Val Asp Asn Leu Arg			
930	935		

<210> 2964

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2964

Met Gly Cys Asp Asn Thr Cys Glu Met Leu Leu Thr Lys Glu Ala Gln

1 5 10 15

Leu Glu Thr Gln His Pro Glu Val Phe Phe Val Val Val Val Val Leu

20 25 30

Val Phe Phe Trp Arg Gly Gly Gly Ser Cys Ser Asp Ala Gln Ala Gly

35 40 45

Met Gln Trp His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe

50 55 60

Lys Arg Ser Ser Gly Leu Ser Phe Pro Asn Ser Trp Asn Tyr Arg Arg

65 70 75 80

Ala Pro Ala Ser Ser Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val

85 90 95

Ser Pro Cys Trp Pro Gly

100

<210> 2965

<211> 806

<212> PRT

<213> Homo sapiens

<400> 2965

Met Ser Ala Ser Pro Asp Asn Leu Ser Thr Gly Gly Arg Leu Gln Asn

1 5 10 15

Met Thr Val Asp Glu Cys Leu Gln Ser Arg Asn Thr Val Leu Gln Gly

20 25 30

Gln Pro Phe Gly Gly Val Pro Thr Val Leu Cys Leu Asn Ile Ala Leu

35 40 45

Trp Val Leu Val Leu Val Val Tyr Ser Phe Leu Arg Lys Ala Ala Trp

50 55 60

Asp Tyr Gly Arg Leu Ala Leu Leu Ile His Asn Asp Ser Leu Thr Ser

65 70 75 80

Leu Ile Tyr Gly Glu Gln Ser Glu Lys Thr Ser Pro Ser Glu Thr Ser

85 90 95

Leu Glu Met Glu Arg Arg Asp Lys Gly Phe Cys Ser Trp Phe Phe Asn

100 105 110

Ser Ile Thr Met Lys Asp Glu Asp Leu Ile Asn Lys Cys Gly Asp Asp

115 120 125

Ala Arg Ile Tyr Ile Val Phe Gln Tyr His Leu Ile Ile Phe Val Leu

130 135 140

Ile Ile Cys Ile Pro Ser Leu Gly Ile Ile Leu Pro Ile Asn Tyr Thr

145 150 155 160

Gly Ser Val Leu Asp Trp Ser Ser His Phe Ala Arg Thr Thr Ile Val

165 170 175

Asn Val Ser Thr Glu Ser Lys Leu Leu Trp Leu His Ser Leu Leu Ser

180 185 190

Phe Phe Tyr Phe Ile Thr Asn Phe Met Phe Met Ala His His Cys Leu

195 200 205

Gly Phe Ala Pro Arg Asn Ser Gln Lys Val Thr Arg Thr Leu Met Ile

210 215 220

Thr Tyr Val Pro Lys Asp Ile Glu Asp Pro Glu Leu Ile Ile Lys His
225 230 235 240
Phe His Glu Ala Tyr Pro Gly Ser Val Val Thr Arg Val His Phe Cys
245 250 255
Tyr Asp Val Arg Asn Leu Ile Asp Leu Asp Asp Gln Arg Arg His Ala
260 265 270
Met Arg Gly Arg Leu Phe Tyr Thr Ala Lys Ala Lys Lys Thr Gly Lys
275 280 285
Val Met Ile Arg Ile His Pro Cys Ala Arg Leu Cys Phe Cys Lys Cys
290 295 300
Trp Thr Cys Phe Lys Glu Val Asp Ala Glu Gln Tyr Tyr Ser Glu Leu
305 310 315 320
Glu Glu Gln Leu Thr Asp Glu Phe Asn Ala Glu Leu Asn Arg Val Pro
325 330 335
Leu Lys Arg Leu Asp Leu Ile Phe Val Thr Phe Gln Asp Ser Arg Met
340 345 350
Ala Lys Arg Val Arg Lys Asp Tyr Lys Tyr Val Gln Cys Gly Val Gln
355 360 365
Pro Gln Gln Ser Ser Val Thr Thr Ile Val Lys Ser Tyr Tyr Trp Arg
370 375 380
Val Thr Met Ala Pro His Pro Lys Asp Ile Ile Trp Lys His Leu Ser
385 390 395 400
Val Arg Arg Phe Phe Trp Trp Ala Arg Phe Ile Ala Ile Asn Thr Phe
405 410 415
Leu Phe Phe Leu Phe Phe Phe Leu Thr Thr Pro Ala Ile Ile Met Asn
420 425 430
Thr Ile Asp Met Tyr Asn Val Thr Arg Pro Ile Glu Lys Leu Gln Asn
435 440 445
Pro Ile Val Thr Gln Phe Phe Pro Ser Val Met Leu Trp Gly Phe Thr

450 455 460
Val Ile Leu Pro Leu Ile Val Tyr Phe Ser Ala Phe Leu Glu Ala His
465 470 475 480
Trp Thr Arg Ser Ser Gln Asn Leu Val Met Val His Lys Cys Tyr Ile
 485 490 495
Phe Leu Val Phe Met Val Val Ile Leu Pro Ser Met Gly Leu Thr Ser
 500 505 510
Leu Asp Val Phe Leu Arg Trp Leu Phe Asp Ile Tyr Tyr Leu Glu Gln
 515 520 525
Ala Ser Ile Arg Phe Gln Cys Val Phe Leu Pro Asp Asn Gly Ala Phe
 530 535 540
Phe Val Asn Tyr Val Ile Thr Ala Ala Leu Leu Gly Thr Gly Met Glu
545 550 555 560
Leu Leu Arg Leu Gly Ser Leu Phe Cys Tyr Ser Thr Arg Leu Phe Phe
 565 570 575
Ser Arg Ser Glu Pro Glu Arg Val Asn Ile Arg Lys Asn Gln Ala Ile
 580 585 590
Asp Phe Gln Phe Gly Arg Glu Tyr Ala Trp Met Met Asn Val Phe Ser
 595 600 605
Val Val Met Ala Tyr Ser Ile Thr Cys Pro Ile Ile Val Pro Phe Gly
 610 615 620
Leu Leu Tyr Leu Cys Met Lys His Leu Thr Asp Arg Tyr Asn Met Tyr
625 630 635 640
Tyr Ser Phe Ala Pro Thr Lys Leu Asn Glu Gln Ile His Met Ala Ala
 645 650 655
Val Ser Gln Ala Ile Phe Ala Pro Leu Leu Gly Leu Phe Trp Met Leu
 660 665 670
Phe Phe Ser Ile Leu Arg Leu Gly Ser Leu His Ala Ile Thr Ile Phe
 675 680 685

Ser Leu Ser Thr Leu Leu Ile Ala Met Val Ile Ala Phe Val Gly Ile
 690 695 700
 Phe Leu Gly Lys Leu Arg Met Val Ala Asp Tyr Glu Pro Glu Glu Glu
 705 710 715 720
 Glu Ile Gln Thr Val Phe Asp Met Glu Pro Ser Ser Thr Ser Ser Thr
 725 730 735
 Pro Thr Ser Leu Leu Tyr Val Ala Thr Val Leu Gln Glu Pro Glu Leu
 740 745 750
 Asn Leu Thr Pro Ala Ser Ser Pro Ala Arg His Thr Tyr Gly Thr Met
 755 760 765
 Asn Asn Gln Pro Glu Glu Gly Glu Glu Glu Ser Gly Leu Arg Gly Phe
 770 775 780
 Ala Arg Glu Leu Asp Ser Ala Gln Phe Gln Glu Gly Leu Glu Leu Glu
 785 790 795 800
 Gly Gln Asn Gln Tyr His
 805

<210> 2966

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2966

Met Trp Pro Cys Gly Thr Arg Arg Gly Thr His Ser Ala Leu Leu Ser
 1 5 10 15
 Ala Glu Ile Cys Glu Ala Arg Met Ser Arg Ala Arg Glu Val Glu Gly
 20 25 30
 Pro Glu Pro Ser Gly Val Leu Val Ala Pro Glu Gln Glu Glu Glu Val

35 40 45
 Glu Gly Glu Ala Arg Arg Glu Leu Gln Asp Asp Pro Ser Gly Pro Pro
 50 55 60
 Ser Ser Ser Gly Leu Cys Ser Glu Ala Ser Gly Pro Tyr Lys Ser Glu
 65 70 75 80
 Gln Glu Gly Ala Gly Ile Trp Gly Trp Ser Gly Met Lys Trp Ala Pro
 85 90 95
 Gly Gly Gln Gln Ser Ser Gln Ala Gln Asp Arg Ala Ala Pro Ser Asn
 100 105 110
 Pro Asp Glu Ser Trp Gln Lys Ala Glu Val Gly Gly Asp Ser Glu Glu
 115 120 125
 Gly Met Gly Leu Gly Val Val Gly Glu Gly Val Ser Pro Ile Ser Gly
 130 135 140
 Leu Asp Arg Cys Thr Trp
 145 150

<210> 2967

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2967

Met Gly Ala Ala Pro Ser Leu Leu Ser Ala Glu Pro Gly Thr Tyr Phe
 1 5 10 15
 Leu Asp Arg Thr Arg Val Leu Leu Pro Arg Ala Gly Arg Gln Leu Arg
 20 25 30
 Val Cys Arg Arg Arg Arg Arg His Ser Ala Ala Ala Arg Arg Val Leu
 35 40 45

Ser Gly Ala Ala Glu Ala Arg Thr Val Ala Ala Ala Ala Ala Ala Ala
50 55 60
Pro Arg Ser Pro Pro Gly Ala Ala Ser Pro Gly Asp Thr Phe Pro Ala
65 70 75 80
Ser Met Gly Arg Arg Pro Ala Ala Arg Pro Ser Thr Pro Ala Ala Glu
85 90 95
Pro Glu Cys Arg Pro Glu Ala Cys
100

<210> 2968

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2968

Met Gly His Ser Asn Leu Cys Leu Leu Arg Asp Cys Lys His Gly Leu
1 5 10 15
Gln Trp Ile Arg Glu Ser Ser Ser Val Ile Val Leu Met Ala Lys Asn
20 25 30
Lys Ala Gln Gly Leu Pro Glu Leu Asn Glu Pro Cys Ser Gly Gln His
35 40 45
Gly Ala Ser Ala Pro Gln Leu Gly Ser Met Ile Leu Val Phe Asn Tyr
50 55 60
Thr Leu Leu Ala Val Val Gly Gly Lys His Ser Arg Ala Ser Val Thr
65 70 75 80
Thr Ile Arg Arg Asn Thr Leu Gly Met Ser Gly Lys Leu Gln Ile Pro
85 90 95
His Pro Ser Thr Val Pro Ser Ala Ser Ser Asp

100

105

<210> 2969

<211> 320

<212> PRT

<213> Homo sapiens

<400> 2969

Met Ala Glu Met Ile Ala Thr Glu Arg Glu Tyr Ile Arg Cys Leu Gly

1

5

10

15

Tyr Val Ile Asp Asn Tyr Phe Pro Glu Met Glu Arg Met Asp Leu Pro

20

25

30

Gln Gly Leu Arg Gly Lys His His Val Ile Phe Gly Asn Leu Glu Lys

35

40

45

Leu His Asp Phe His Gln Gln His Phe Leu Arg Glu Leu Glu Arg Cys

50

55

60

Gln His Cys Pro Leu Ala Val Gly Arg Ser Phe Leu Arg His Glu Glu

65

70

75

80

Gln Phe Gly Met Tyr Val Ile Tyr Ser Lys Asn Lys Pro Gln Ser Asp

85

90

95

Ala Leu Leu Ser Ser His Gly Asn Ala Phe Phe Lys Asp Lys Gln Arg

100

105

110

Glu Leu Gly Asp Lys Met Asp Leu Ala Ser Tyr Leu Leu Arg Pro Val

115

120

125

Gln Arg Val Ala Lys Tyr Ala Leu Leu Leu Gln Asp Leu Leu Lys Glu

130

135

140

Ala Ser Cys Gly Leu Ala Gln Gly Gln Glu Leu Gly Glu Leu Arg Ala

145

150

155

160

Ala Glu Val Val Val Cys Phe Gln Leu Arg His Gly Asn Asp Leu Leu
 165 170 175
 Ala Met Asp Ala Ile Arg Gly Cys Asp Val Asn Leu Lys Glu Gln Gly
 180 185 190
 Gln Leu Arg Cys Arg Asp Glu Phe Ile Val Cys Cys Gly Arg Lys Lys
 195 200 205
 Tyr Leu Arg His Val Phe Leu Phe Glu Asp Leu Ile Leu Phe Ser Lys
 210 215 220
 Thr Gln Lys Val Glu Gly Ser His Asp Val Tyr Leu Tyr Lys Gln Ser
 225 230 235 240
 Phe Lys Thr Ala Glu Ile Gly Met Thr Glu Asn Val Gly Asp Ser Gly
 245 250 255
 Leu Arg Phe Glu Ile Trp Phe Arg Arg Arg Arg Lys Ser Gln Asp Thr
 260 265 270
 Tyr Ile Leu Gln Ala Ser Ser Ala Glu Val Lys Ser Ala Trp Thr Asp
 275 280 285
 Val Ile Gly Arg Ile Leu Trp Arg Gln Ala Leu Lys Ser Arg Gly Arg
 290 295 300
 Arg Gly Thr Pro Pro Arg Gln Arg Asp Leu Gly Ser His Arg His Glu
 305 310 315 320

<210> 2970

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2970

Met Ser Thr Leu Ser Gly Arg Pro Phe Ser Ser Leu Leu Leu Glu Gln

1	5	10	15
Gly Asp His Arg Gly Ala Thr Trp Leu Gly Arg Gly Gly Gly Ala Gly			
20	25	30	
Pro Gly Gln Ser Gly Pro Gly His Gly Gln Gly Thr Ala Thr Pro Gly			
35	40	45	
Pro Gly Gln Val Arg Ala Ala Gln Ala Arg Ala Arg Arg Gly Gly Gly			
50	55	60	
Ala Arg Glu Arg Pro Ala Glu Gly Ala Arg Glu Pro Gly Ala Ala Arg			
65	70	75	80
Arg Gly Ala Arg Ala Gly Pro Gly Ala His Leu Arg Ala Ala Arg Thr			
85	90	95	
Leu Arg Ala Arg Ala Gln Thr Pro Gln Leu Arg Arg Glu Ala Ala Cys			
100	105	110	
Ala Gly Ser Phe Phe Pro Lys Cys Arg Gln Ser Pro Arg Ser His Gly			
115	120	125	
Gln Pro Phe Arg Gln Leu Gln Ser His Trp Gln Ala Pro Arg Gln Gly			
130	135	140	
Trp Pro Ala Gln Glu Gly Gly Gly Arg Arg Pro Ser Arg Arg Glu Glu			
145	150	155	160
Ala Ala Ala Leu Ala Gly Gly Gly Lys Arg Thr Ala Pro Gly Leu Arg			
165	170	175	
Gly Arg Gly Gly Arg Ala Ala Ala Gly Gln Gly Gly Asp Arg His Pro			
180	185	190	
Asp Arg Trp Arg Arg Gln Arg Ser Lys			
195	200		

<210> 2971

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2971

Met Gln Ala Pro Arg Ala Ala Pro Ala Ala Pro Leu Ser Tyr Asp Arg
1 5 10 15
Arg Pro Arg Asp Ser Gly Arg Met Trp Val Leu Gly Ile Ala Ala Thr
20 25 30
Phe Cys Gly Leu Phe Leu Leu Pro Gly Phe Ala Leu Gln Ile Gln Cys
35 40 45
Tyr Gln Cys Glu Glu Phe Gln Leu Asn Asn Asp Cys Ser Ser Pro Glu
50 55 60
Phe Ile Val Asn Cys Thr Val Asn Val Gln Asp Met Cys Gln Lys Glu
65 70 75 80
Val Met Glu Gln Ser Ala Gly Ile Met Tyr Arg Lys Ser Cys Ala Ser
85 90 95
Ser Ala Ala Cys Leu Ile Ala Ser Ala Gly Tyr Gln Ser Phe Cys Ser
100 105 110
Pro Gly Lys Leu Asn Ser Val Cys Ile Ser Cys Cys Asn Thr Pro Leu
115 120 125
Cys Ser Gly Pro Arg Pro Lys Lys Arg Gly Ser Ser Ala Ser Ala Leu
130 135 140
Arg Pro Gly Leu Arg Thr Thr Ile Leu Phe Leu Arg Leu Ala Leu Phe
145 150 155 160
Ser Ala His Cys

<210> 2972

<211> 321

<212> PRT

<213> Homo sapiens

<400> 2972

Met Ala Ala Asn Ile Val Ala Lys Arg Lys Ser Leu Ser Ala Thr Val

1 5 10 15

Val Val Tyr Val Asn Gly Gly Trp Ser Ser Trp Thr Glu Trp Ser Ala

20 25 30

Cys Asn Val Arg Cys Gly Arg Gly Trp Gln Lys Arg Ser Arg Thr Cys

35 40 45

Thr Asn Pro Ala Pro Leu Asn Gly Gly Ala Phe Cys Glu Gly Met Ser

50 55 60

Val Gln Lys Ile Thr Cys Thr Ser Leu Cys Pro Val Asp Gly Ser Trp

65 70 75 80

Glu Val Trp Ser Glu Trp Ser Val Cys Ser Pro Glu Cys Glu His Leu

85 90 95

Arg Ile Arg Glu Cys Thr Ala Pro Pro Pro Arg Asn Gly Gly Lys Phe

100 105 110

Cys Glu Gly Leu Ser Gln Glu Ser Glu Asn Cys Thr Asp Gly Leu Cys

115 120 125

Ile Leu Gly Ile Glu Asn Ala Ser Asp Ile Ala Leu Tyr Ser Gly Leu

130 135 140

Gly Ala Ala Val Val Ala Val Ala Val Leu Val Ile Gly Val Thr Leu

145 150 155 160

Tyr Arg Arg Ser Gln Ser Asp Tyr Gly Val Asp Val Ile Asp Ser Ser

165 170 175

Ala Leu Thr Gly Gly Phe Gln Thr Phe Asn Phe Lys Thr Val Arg Gln

180 185 190

Gly Asn Ser Leu Leu Leu Asn Ser Ala Met Gln Pro Asp Leu Thr Val
 195 200 205
 Ser Arg Thr Tyr Ser Gly Pro Ile Cys Leu Gln Asp Pro Leu Asp Lys
 210 215 220
 Glu Leu Met Thr Glu Ser Ser Leu Phe Asn Pro Leu Ser Asp Ile Lys
 225 230 235 240
 Val Lys Val Gln Ser Ser Phe Met Val Ser Leu Gly Val Ser Glu Arg
 245 250 255
 Ala Glu Tyr His Gly Lys Asn His Ser Arg Thr Phe Pro His Gly Asn
 260 265 270
 Asn His Ser Phe Ser Thr Met His Pro Arg Asn Lys Met Pro Tyr Ile
 275 280 285
 Gln Asn Leu Ser Ser Leu Pro Thr Arg Thr Glu Leu Arg Thr Thr Gly
 290 295 300
 Val Phe Gly His Leu Gly Gly Arg Leu Val Met Pro Asn Thr Gly Gly
 305 310 315 320
 Trp

<210> 2973

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2973

Met Pro Gln Pro Arg Gly Gly Gln Pro Ala Trp Gln Leu Thr Pro Ser
 1 5 10 15
 Pro Pro Pro Ser Ser Arg Ile Met Ser Thr His Val Ala Gly Leu Gly

20	25	30
Leu Asp Lys Met Lys Leu Gly Asn Pro Gln Ser Phe Leu Asp Gln Glu		
35	40	45
Glu Ala Asp Asp Gln Gln Leu Leu Glu Pro Glu Ala Trp Lys Thr Tyr		
50	55	60
Thr Glu Arg Arg Asn Ala Leu Arg Glu Phe Leu Thr Ser Asp Leu Ser		
65	70	75
Pro His Leu Leu Lys Arg His His Ala Arg Met Gln Leu Leu Arg Lys		
85	90	95
Cys Ser Tyr Tyr Ile Glu Val Leu Pro Lys His Leu Ala Leu Gly Asp		
100	105	110
Gln Asn Pro Leu Val Leu Pro Ser Ala Leu Phe Gln Leu Ile Asp Pro		
115	120	125
Trp Lys Phe Gln Arg Met Lys Lys Val Gly Thr Ala Gln Thr Lys Ile		
130	135	140
Gln Leu Leu Leu Leu Gly Asp Leu Leu Glu Gln Leu Asp His Gly Arg		
145	150	155
Ala Glu Leu Asp Ala Leu Leu Arg Ser Pro Asp Pro Arg Pro Phe Leu		
165	170	175
Ala Asp Trp Ala Leu Val Glu Arg Arg Leu Ala Asp Val Ser Ala Val		
180	185	190
Met Asp Ser Phe Leu Thr Met Met Val Pro Gly Arg Leu His Val Lys		
195	200	205
His Arg Leu Val Ser Asp Val Ser Ala Thr Lys Ile Pro His Ile Trp		
210	215	220
Leu Met Leu Ser Thr Lys Met Pro Val Val Phe Asp Arg Lys Ala Ser		
225	230	235
Ala Ala His Gln Asp Trp Ala Arg Leu Arg Trp Phe Val Thr Ile Gln		
245	250	255

Pro Ala Thr Ser Glu Gln Tyr Glu Leu Arg Phe Arg Leu Leu Asp Pro
260 265 270
Arg Thr Gln Gln Glu Cys Ala Gln Cys Gly Val Ile Pro Val Ala Ala
275 280 285
Cys Thr Phe Asp Val Arg Asn Leu Leu Pro Asn Arg Ser Tyr Lys Phe
290 295 300
Thr Ile Lys Arg Ala Glu Thr Ser Thr Leu Val Tyr Glu Pro Trp Arg
305 310 315 320
Asp Ser Leu Thr Leu His Thr Lys Pro Glu Pro Leu Glu Gly Pro Ala
325 330 335
Leu Ser His Ser Val
340

<210> 2974

<211> 822

<212> PRT

<213> Homo sapiens

<400> 2974

Met Asn Trp Asn Lys Gly Gly Pro Gly Thr Lys Arg Gly Phe Gly Phe
1 5 10 15
Gly Gly Phe Ala Ile Ser Ala Gly Lys Lys Glu Glu Pro Lys Leu Pro
20 25 30
Gln Gln Ser His Ser Ala Phe Gly Ala Thr Ser Ser Ser Ser Gly Phe
35 40 45
Gly Lys Ser Ala Pro Pro Gln Leu Pro Ser Phe Tyr Lys Ile Gly Ser
50 55 60
Lys Arg Ala Asn Phe Asp Glu Glu Asn Ala Tyr Phe Glu Asn Glu Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ala Ala Phe Ile Trp Pro Met Leu Ile His Ile Met Asp Gln Lys Glu
 305 310 315 320
 Leu Glu Pro Gly Asp Gly Pro Ile Ala Val Ile Val Cys Pro Thr Arg
 325 330 335
 Glu Leu Cys Gln Gln Ile His Ala Glu Cys Lys Arg Phe Gly Lys Ala
 340 345 350
 Tyr Asn Leu Arg Ser Val Ala Val Tyr Gly Gly Gly Ser Met Trp Glu
 355 360 365
 Gln Ala Lys Ala Leu Gln Glu Gly Ala Glu Ile Val Val Cys Thr Pro
 370 375 380
 Gly Arg Leu Ile Asp His Val Lys Lys Lys Ala Thr Asn Leu Gln Arg
 385 390 395 400
 Val Ser Tyr Leu Val Phe Asp Glu Ala Asp Arg Met Phe Asp Met Gly
 405 410 415
 Phe Glu Tyr Gln Val Arg Ser Ile Ala Ser His Val Arg Pro Asp Arg
 420 425 430
 Gln Thr Leu Leu Phe Ser Ala Thr Phe Arg Lys Lys Ile Glu Lys Leu
 435 440 445
 Ala Arg Asp Ile Leu Ile Asp Pro Ile Arg Val Val Gln Gly Asp Ile
 450 455 460
 Gly Glu Ala Asn Glu Asp Val Thr Gln Ile Val Glu Ile Leu His Ser
 465 470 475 480
 Gly Pro Ser Lys Trp Asn Trp Leu Thr Arg Arg Leu Val Glu Phe Thr
 485 490 495
 Ser Ser Gly Ser Val Leu Leu Phe Val Thr Lys Lys Ala Asn Ala Glu
 500 505 510
 Glu Leu Ala Asn Asn Leu Lys Gln Glu Gly His Asn Leu Gly Leu Leu
 515 520 525
 His Gly Asp Met Asp Gln Ser Glu Arg Asn Lys Val Ile Ser Asp Phe

530 535 540
Lys Lys Lys Asp Ile Pro Val Leu Val Ala Thr Asp Val Ala Ala Arg
545 550 555 560
Gly Leu Asp Ile Pro Ser Ile Lys Thr Val Ile Asn Tyr Asp Val Ala
 565 570 575
Arg Asp Ile Asp Thr His Thr His Arg Ile Gly Arg Thr Gly Arg Ala
 580 585 590
Gly Glu Lys Gly Val Ala Tyr Thr Leu Leu Thr Pro Lys Asp Ser Asn
 595 600 605
Phe Ala Gly Asp Leu Val Arg Asn Leu Glu Gly Ala Asn Gln His Val
610 615 620
Ser Lys Glu Leu Leu Asp Leu Ala Met Gln Asn Ala Trp Phe Arg Lys
625 630 635 640
Ser Arg Phe Lys Gly Gly Lys Gly Lys Lys Leu Asn Ile Gly Gly Gly
 645 650 655
Gly Leu Gly Tyr Arg Glu Arg Pro Gly Leu Gly Ser Glu Asn Met Asp
 660 665 670
Arg Gly Asn Asn Asn Val Met Ser Asn Tyr Glu Ala Tyr Lys Pro Ser
 675 680 685
Thr Gly Ala Met Gly Asp Arg Leu Thr Ala Met Lys Ala Ala Phe Gln
690 695 700
Pro Gln Tyr Lys Ser His Phe Val Ala Ala Ser Leu Ser Asn Gln Lys
705 710 715 720
Ala Gly Ser Ser Ala Ala Gly Ala Ser Gly Trp Thr Ser Ala Gly Ser
 725 730 735
Leu Asn Ser Val Pro Thr Asn Ser Ala Gln Gln Gly His Asn Ser Pro
 740 745 750
Asp Ser Pro Val Thr Leu Asn Ile Ser Gly Leu Ser Val Ser Phe Ser
 755 760 765

Cys Leu Leu Ser Gly Pro Leu Ala Ala Ala Gly Met Cys Val Cys Glu
 770 775 780

Gly Leu Leu Pro Ile Pro Leu Ala Pro Gly Ala Trp Cys Leu Lys Arg
 785 790 795 800

Trp Cys Val Pro Cys Gln Ala Thr Leu Lys Asn Ile Tyr Val Gln Gln
 805 810 815

Gln Tyr Asn Ser Thr Arg
 820

<210> 2975

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2975

Met Ala Leu Gln Leu Arg Trp Phe Lys His Arg Arg Pro Phe Phe Leu
 1 5 10 15

Leu Leu Ile Ala Gln Leu Cys Val His Trp Pro Pro His Leu Pro Pro
 20 25 30

Asp Gln Arg Gly Phe Cys Leu Pro Gln His Cys Gln Pro Gly Val Phe
 35 40 45

Leu Asp Ser Ser Pro Gly Pro Pro Ser Ala Pro Leu Pro Pro Ser Ala
 50 55 60

Leu Thr Ser Arg Pro Pro Ser Leu Leu Leu Gly Asn Leu Ala Trp Val
 65 70 75 80

Gly Leu Pro Ser Gln Pro Ser Arg Leu Phe Phe Leu Ser Leu Ala Ala
 85 90 95

Cys Leu Ala His His Cys Gly Gln Val Ser Leu Ser Glu Asn Thr Ile

100	105	110	
Ser Ser His His Gly Pro Gly Tyr Lys Ala Val Ser His Leu Pro Ile			
115	120	125	
Thr Ser Asp Gln Ile Arg Thr Leu Arg Leu Trp Ile Glu Ala Asp Ala			
130	135	140	
Thr Val Pro Gly Lys Pro His Cys Pro Pro Ile Pro Ala Leu Ala Ser			
145	150	155	160
Val Pro Val Arg Ser Cys Thr Met Leu Leu Ser Ala Ile Leu Pro Ser			
165	170	175	
Pro Ala Leu Pro Ala Cys Trp Ser Cys Ile Ala Leu His Leu Thr Asp			
180	185	190	
Ser Tyr Ser Thr Ala Leu Ala Ser Pro Lys His Thr Trp Pro Ser			
195	200	205	

<210> 2976

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2976

Met Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Ser
1 5 10 15
Leu His Leu Leu Gly Ser Ser Ser Pro Pro Thr Ser Thr Ser Leu Arg
20 25 30
Ala Glu Thr Thr Gly Val Ser His His Ala Trp Leu Ile Phe Arg Asp
35 40 45
Arg Val Ser Pro Ser Cys Pro Gly Trp Ser Gln Thr Pro Gly Leu Lys
50 55 60

<210> 2977

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2977

出証特 2 0 0 4 - 3 0 5 9 6 6 0

100	105	110
Ala Arg Gly Lys Thr Pro Arg Val Ser Leu Ala Gly Leu Glu Thr Leu		
115	120	125
Ser Ser Leu Leu His Gln Gln Gln Leu Phe Asp		
130	135	

<210> 2978

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2978

Met Gly Thr Ala Ala Gly Ala Glu Gly Pro Cys Pro Trp Gly Ala Arg		
1	5	10
Arg Ala Gly Arg Gln Gln Ala Arg Ala Ser Leu Thr Glu Arg Thr Pro		
20	25	30
Ala Glu Gly Leu Ala Leu Arg Gly Ala Gly Gln Gly His Thr Gly Val		
35	40	45
Leu Pro Leu Pro Gly Gln Arg Asp Gly Val Val Gly Arg Trp Gln Gln		
50	55	60
Ala Ser Phe Arg Arg Asp Ala Gln Glu Ala Thr Leu Asn Glu Pro His		
65	70	75
Leu Leu Arg Val Arg Phe Asp Leu Phe Leu Arg Pro Arg Arg Ile Asn		
85	90	95
Ser Asp Leu Ile Gly Phe Gly Ala Gly Arg Arg Gly Val Arg Leu Ala		
100	105	110
Ser Pro Leu Pro Ala Leu Leu Pro Cys Thr Asp Val Ile Cys Val Ser		
115	120	125

<210> 2979

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2979

Met Val Lys Asp Asp Asp Pro Ser Trp Lys Pro Thr Phe Ile Val Lys

1 5 10 15

Pro Asp Gly Gly Cys Gln Gly Asp Gly Ile Tyr Leu Ile Lys Asp Pro

20 25 30

Ser Asp Ile Arg Leu Ala Gly Thr Leu Gln Ser Arg Pro Ala Val Val

35 40 45

Gln Glu Tyr Ile Cys Lys Pro Leu Leu Ile Asp Lys Leu Lys Phe Asp

50 55 60

Ile Arg Leu Tyr Val Leu Leu Lys Ser Leu Asp Pro Leu Glu Ile Tyr

65 70 75 80

Ile Ala Lys Asp Gly Leu Ser Arg Phe Cys Thr Glu Pro Tyr Gln Glu

85 90 95

Pro Thr Pro Lys Asn Leu His Arg Ile Phe Met His Leu Thr Asn Tyr

100 105 110

Ser Leu Asn Ile His Ser Gly Asn Phe Ile His Ser Asp Ser Ala Ser

115 120 125

Thr Gly Ser Lys Arg Thr Phe Ser Ser Ile Leu Cys Arg Leu Ser Ser

130 135 140

Lys Gly Val Asp Ile Lys Lys Val Trp Ser Asp Ile Ile Ser Val Val

145 150 155 160

Ile Lys Thr Val Ile Ala Leu Thr Pro Glu Leu Lys Val Phe Tyr Gln

	165		170		175
Ser Asp Ile Pro Thr Gly Arg Pro Gly Pro Thr Cys Phe Gln Ile Leu					
	180		185		190
Gly Phe Asp Ile Leu Leu Met Lys Asn Leu Lys Pro Ile Leu Leu Glu					
	195		200		205
Val Asn Ala Asn Pro Ser Met Arg Ile Glu His Glu His Glu Gly Cys					
	210		215		220
Leu Lys Met Ser Pro Ala Ser Leu Met Lys Lys					
225		230		235	

<210> 2980

<211> 202

<212> PRT

<213> Homo sapiens

<400> 2980

Met Gly Ser Glu Gln Tyr Asp Ala Asp Ala Glu Glu Thr Gly Leu Asp			
1	5	10	15
Gly Ser Trp Gly Phe Pro Gly Lys Pro Phe Thr Thr Ile His Met Gly			
20	25	30	
Val Pro His Ser Gly Pro Thr Leu Thr Pro Arg Thr Gly Ser Ser Asp			
35	40	45	
Val Ala Asp Gln Leu Trp Ala Gln Glu Arg Lys His Pro Thr Arg Leu			
50	55	60	
Gly Trp Gln Glu Phe Gly Leu Ser Thr Asp Pro Ile Lys Leu Pro Cys			
65	70	75	80
Asn Ser Glu Asn Val Thr Trp Leu Lys Pro Arg Pro Ile Ser Arg Cys			
85	90	95	

Leu Ala Arg Pro Ser Ser Pro Leu Val Pro Ser Cys Ser Pro Lys Thr
 100 105 110
 Ala Gly Thr Leu Arg Gln Pro Thr Leu Glu Gln Ala Gln Gln Val Val
 115 120 125
 Ile Arg Ala His Gln Glu Gln Leu Asp Glu Met Ala Glu Leu Gly Phe
 130 135 140
 Lys Glu Glu Thr Leu Met Ser Gln Leu Ala Ser Asn Asp Phe Glu Asp
 145 150 155 160
 Phe Val Thr Gln Leu Asp Glu Ile Met Val Leu Lys Ser Lys Cys Ile
 165 170 175
 Gln Ser Leu Arg Ser Gln Leu Gln Leu Tyr Leu Thr Cys His Gly Pro
 180 185 190
 Thr Ala Ala Pro Glu Gly Thr Val Pro Ser
 195 200

<210> 2981

<211> 1420

<212> PRT

<213> Homo sapiens

<400> 2981

Met Arg Leu Val Ala Ser Glu Leu His Thr Ser Leu Tyr Ser Ser Met
 1 5 10 15
 Val Gly Ala Asp Arg Leu Gly Thr Leu Ala Thr Ala Leu Leu Ala Phe
 20 25 30
 Pro Ser Val Gly Pro Thr Phe Pro Thr Tyr Tyr Ala His Ala Asp Thr
 35 40 45
 Leu Cys Ser Val Lys Ser Glu Glu Val Leu Arg Gly Leu Gly Lys Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Gly Glu Ala Pro Ser Asp Leu Met Val Lys Pro Asp Gly Pro Tyr Asp
290 295 300
Phe Tyr Gln His Pro Asn Val Pro Glu Ala Arg Gln Cys Gln Pro Val
305 310 315 320
Leu Gln Gly Phe Ser Glu Ala Val Ser His Leu Leu Gln Asp Trp Pro
325 330 335
Glu His Pro Ala Leu Glu Gln Leu Leu Val Val Met Asp Arg Ile Arg
340 345 350
Ser Phe Pro Leu Ser Ser Pro Ile Ser Lys Phe Leu Asn Gly Leu Glu
355 360 365
Ile Leu Leu Ala Lys Ala Gln Asp Trp Glu Glu Asn Ala Ser Arg Ala
370 375 380
Leu Ser Leu Arg Lys His Leu Asp Leu Ile Ser Gln Met Ile Ile Arg
385 390 395 400
Trp Arg Lys Leu Glu Leu Asn Cys Trp Ser Met Ser Leu Asp Asn Thr
405 410 415
Met Lys Arg His Thr Glu Lys Ser Thr Lys His Trp Phe Ser Thr Tyr
420 425 430
Gln Met Leu Glu Lys His Met Gln Glu Gln Thr Glu Glu Gln Glu Asp
435 440 445
Asp Lys Gln Met Thr Leu Met Leu Leu Val Ser Thr Leu Gln Ala Phe
450 455 460
Ile Glu Gly Ser Ser Leu Gly Glu Phe His Val Arg Leu Gln Met Leu
465 470 475 480
Leu Val Phe His Cys His Val Leu Leu Met Pro Gln Val Glu Gly Lys
485 490 495
Asp Ser Leu Cys Ser Val Leu Trp Asn Leu Tyr His Tyr Tyr Lys Gln
500 505 510
Phe Phe Asp Arg Val Gln Ala Lys Ile Val Glu Leu Arg Ser Pro Leu

515 520 525
Glu Lys Glu Leu Lys Glu Phe Val Lys Ile Ser Lys Trp Asn Asp Val
530 535 540
Ser Phe Trp Ser Ile Lys Gln Ser Val Glu Lys Thr His Arg Thr Leu
545 550 555 560
Phe Lys Phe Met Lys Lys Phe Glu Ala Val Leu Ser Glu Pro Cys Arg
565 570 575
Ser Ser Leu Val Glu Ser Asp Lys Glu Glu Gln Pro Asp Phe Leu Pro
580 585 590
Arg Pro Thr Asp Gly Ala Ala Ser Glu Leu Ser Ser Ile Gln Asn Leu
595 600 605
Asn Arg Ala Leu Arg Glu Thr Leu Leu Ala Gln Pro Ala Ala Gly Gln
610 615 620
Ala Thr Ile Pro Glu Trp Cys Gln Gly Ser Ala Pro Ser Gly Leu Glu
625 630 635 640
Gly Glu Leu Leu Arg Arg Leu Pro Lys Leu Arg Lys Arg Met Arg Lys
645 650 655
Met Cys Leu Thr Phe Met Lys Glu Ser Pro Leu Pro Arg Leu Val Glu
660 665 670
Gly Leu Asp Gln Phe Thr Gly Glu Val Ile Ser Ser Val Ser Glu Leu
675 680 685
Gln Ser Leu Lys Val Glu Pro Ser Ala Glu Lys Glu Lys Gln Arg Ser
690 695 700
Glu Ala Lys His Ile Leu Met Gln Lys Gln Arg Ala Leu Ser Asp Leu
705 710 715 720
Phe Lys His Leu Ala Lys Ile Gly Leu Ser Tyr Arg Lys Gly Leu Ala
725 730 735
Trp Ala Arg Ser Lys Asn Pro Gln Glu Met Leu His Leu His Pro Leu
740 745 750

Asp Leu Gln Ser Ala Leu Ser Ile Val Ser Ser Thr Gln Glu Ala Asp
755 760 765
Ser Arg Leu Leu Thr Glu Ile Ser Ser Ser Trp Asp Gly Cys Gln Lys
770 775 780
Tyr Phe Tyr Arg Ser Leu Ala Arg His Ala Arg Leu Asn Ala Ala Leu
785 790 795 800
Ala Thr Pro Ala Lys Glu Met Gly Met Gly Asn Val Glu Arg Cys Arg
805 810 815
Gly Phe Ser Ala His Leu Met Lys Met Leu Val Arg Gln Arg Arg Ser
820 825 830
Leu Thr Thr Leu Ser Glu Gln Trp Ile Ile Leu Arg Asn Leu Leu Ser
835 840 845
Cys Val Gln Glu Ile His Ser Arg Leu Met Gly Pro Gln Ala Tyr Pro
850 855 860
Val Ala Phe Pro Pro Gln Asp Gly Val Gln Gln Trp Thr Glu Arg Leu
865 870 875 880
Gln His Leu Ala Met Gln Cys Gln Ile Leu Leu Glu Gln Leu Ser Trp
885 890 895
Leu Leu Gln Cys Cys Pro Ser Val Gly Pro Ala Pro Gly His Gly Asn
900 905 910
Val Gln Val Leu Gly Gln Pro Pro Gly Pro Cys Leu Glu Gly Pro Glu
915 920 925
Leu Ser Lys Gly Gln Leu Cys Gly Val Val Leu Asp Leu Ile Pro Ser
930 935 940
Asn Leu Ser Tyr Pro Ser Pro Ile Pro Gly Ser Gln Leu Pro Ser Gly
945 950 955 960
Cys Arg Met Arg Lys Gln Asp His Leu Trp Gln Gln Ser Thr Thr Arg
965 970 975
Leu Thr Glu Met Leu Lys Thr Ile Lys Thr Val Lys Ala Asp Val Asp

980	985	990	
Lys Ile Arg Gln Gln Ser Cys Glu Thr Leu Phe His Ser Trp Lys Asp			
995	1000	1005	
Phe Glu Val Cys Ser Ser Ala Leu Ser Cys Leu Ser Gln Val Ser Val			
1010	1015	1020	
His Leu Gln Gly Leu Glu Ser Leu Phe Ile Leu Pro Gly Met Glu Val			
1025	1030	1035	1040
Glu Gln Arg Asp Ser Gln Met Ala Leu Val Glu Ser Leu Glu Tyr Val			
1045	1050	1055	
Arg Gly Glu Ile Ser Lys Ala Met Ala Asp Phe Thr Thr Trp Lys Thr			
1060	1065	1070	
His Leu Leu Thr Ser Asp Ser Gln Gly Gly Asn Gln Met Leu Asp Glu			
1075	1080	1085	
Gly Phe Val Glu Asp Phe Ser Glu Gln Met Glu Ile Ala Ile Arg Ala			
1090	1095	1100	
Ile Leu Cys Ala Ile Gln Asn Leu Glu Glu Arg Lys Asn Glu Lys Ala			
1105	1110	1115	1120
Glu Glu Asn Thr Asp Gln Ala Ser Pro Gln Glu Asp Tyr Ala Gly Phe			
1125	1130	1135	
Glu Arg Leu Gln Ser Gly His Leu Thr Lys Leu Leu Glu Asp Asp Phe			
1140	1145	1150	
Trp Ala Asp Val Ser Thr Leu His Val Gln Lys Ile Ile Ser Ala Ile			
1155	1160	1165	
Ser Glu Leu Leu Glu Arg Leu Lys Ser Tyr Gly Glu Asp Gly Thr Ala			
1170	1175	1180	
Ala Lys His Leu Phe Phe Ser Gln Ser Cys Ser Leu Leu Val Arg Leu			
1185	1190	1195	1200
Val Pro Val Leu Ser Ser Tyr Ser Asp Leu Val Leu Phe Phe Leu Thr			
1205	1210	1215	

Met Ser Leu Ala Thr His Arg Ser Thr Ala Lys Leu Leu Ser Val Leu
1220 1225 1230
Ala Gln Val Phe Thr Glu Leu Ala Gln Lys Gly Phe Cys Leu Pro Lys
1235 1240 1245
Glu Phe Met Glu Asp Ser Ala Gly Glu Gly Ala Thr Glu Phe His Asp
1250 1255 1260
Tyr Glu Gly Gly Gly Ile Gly Glu Gly Glu Gly Met Lys Asp Val Ser
1265 1270 1275 1280
Asp Gln Ile Gly Asn Glu Glu Gln Val Glu Asp Thr Phe Gln Lys Gly
1285 1290 1295
Gln Glu Lys Asp Lys Glu Asp Pro Asp Ser Lys Ser Asp Ile Lys Gly
1300 1305 1310
Glu Asp Asn Ala Ile Glu Met Ser Glu Asp Phe Asp Gly Lys Met His
1315 1320 1325
Asp Gly Glu Leu Glu Glu Gln Glu Glu Asp Asp Glu Lys Ser Asp Ser
1330 1335 1340
Glu Gly Gly Asp Leu Asp Lys His Met Gly Asp Leu Asn Gly Glu Glu
1345 1350 1355 1360
Ala Asp Lys Leu Asp Glu Arg Leu Trp Gly Asp Asp Asp Glu Glu Glu
1365 1370 1375
Asp Glu Glu Glu Glu Asp Asn Lys Thr Glu Glu Thr Gly Pro Gly Met
1380 1385 1390
Asp Glu Glu Asp Ser Glu Leu Val Ala Lys Asp Asp Asn Leu Asp Ser
1395 1400 1405
Gly Asn Ser Asn Lys Asp Lys Ser Gln Gln Asp Lys
1410 1415 1420

<210> 2982

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2982

Met Gly Gly Cys Met Ala Met His Leu Ala Tyr Arg Asn His Gln Asp

1

5

10

15

Val Ala Gly Val Phe Ala Leu Ser Ser Phe Leu Asn Lys Ala Ser Ala

20

25

30

Val Tyr Gln Ala Leu Gln Lys Ser Asn Gly Val Leu Pro Glu Leu Phe

35

40

45

Gln Cys His Gly Thr Ala Asp Glu Leu Val Leu His Ser Trp Ala Glu

50

55

60

Glu Thr Asn Ser Met Leu Lys Ser Leu Gly Val Thr Thr Lys Phe His

65

70

75

80

Ser Phe Pro Asn Val Tyr His Glu Leu Ser Lys Thr Glu Leu Asp Ile

85

90

95

Leu Lys Leu Trp Ile Leu Thr Lys Leu Pro Gly Glu Met Glu Lys Gln

100

105

110

Lys

<210> 2983

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2983

Met	His	Ala	Cys	Thr	His	Ala	His	Thr	His	Thr	His	Ala	His	Thr	Leu
1				5						10					15
Ser	Cys	Lys	Val	Glu	Ile	Trp	Gly	Gln	Tyr	Leu	Pro	Thr	His	Thr	His
			20					25						30	
Thr	His	Thr	His	Thr	His	Ala	His	Cys	Pro	Val	Pro	Pro	Tyr	Thr	His
			35					40						45	
Ala	His	Ala	Val	Cys	Thr	Ser	Leu	His	Thr	His	Thr	His	Thr	His	Thr
			50					55						60	
Leu	Ser	Leu	Tyr	Trp	Leu	Ile	Ser	Leu	Tyr	Ile	His	Thr	His	Thr	His
65					70					75					80
Thr	His	Thr	His	Thr	His	Ala	Val	Leu	Tyr	Leu	Pro	Thr	His	Thr	His
					85					90					95
Thr	His	Ala	Val	Leu	Thr	Leu	Ala	Tyr	Leu	Pro	Ile	His	Thr	His	Thr
				100						105					110
His	Thr	His	Thr	His	Thr	Leu	Ser	Cys	Thr	Ser	Leu	Tyr	Thr	His	Thr
				115						120					125
Leu	Ser	Leu	His	Trp	Leu	Thr	Cys	Leu	Tyr	Thr	His	Thr	His	Ala	His
			130							135					140
Ala	Val	Leu	Tyr	Leu	Pro	Thr	His	Thr	His	Met	Leu	Ser	Leu	His	Trp
145						150				155					160
Leu	Pro	Val	Leu	Leu	Thr	Pro	Phe	Gln	Glu	Pro	Pro	Gln	Ala	Gly	His
						165									175
Leu	Gly	Pro	Pro	Cys	Arg	Val	Gln	Pro	Trp	Pro	His	Ser	Asp	Ile	Gly
				180						185					190
Gly	Gly	Asp	Ala	Ala	Gln	Leu	Arg	Gly	Cys	Gly	Ser	Arg	Leu	Gly	
				195						200					205

<210> 2984

<211> 376

<212> PRT

<213> Homo sapiens

<400> 2984

Met Ala Met Thr Pro Glu Arg Gln Asn Ala Tyr Ile Ser Gln Gln Met

1 5 10 15

Ser Pro Phe Glu Ala Val Gln Glu Gln Val Thr Ser Lys Cys Ser Arg

20 25 30

Ile Lys Ala Ser Pro Pro Ser Ser Lys His Leu Met Pro Pro Arg Thr

35 40 45

Gly Leu Leu Gln Asn Asn Leu Ser Pro Gly Met Ile Pro Leu Thr Arg

50 55 60

His Gln Ser Cys Glu Gly Met Gly Val Ile Ser Pro Thr Leu Gly Lys

65 70 75 80

Arg Gln Gly Ile Phe Thr Ser Ser Pro Gln Cys Pro Ile Leu Ser His

85 90 95

Ser Gly Gln Thr Pro Leu Gly Arg Leu Asp Ser Val Cys Gln His Met

100 105 110

Gln Ser Pro Lys Ala Thr Pro Pro Glu Val Pro Leu Pro Gly Phe Cys

115 120 125

Pro Ser Ser Leu Gly Thr Gln Ser Leu Ser Pro His Gln Leu Arg Arg

130 135 140

Pro Ser Val Pro Arg Met Pro Thr Ala Phe Asn Asn Ala Ala Trp Val

145 150 155 160

Thr Ala Ala Ala Ala Val Thr Thr Ala Val Ser Gly Lys Thr Pro Leu

165 170 175

Ser Gln Val Asp Asn Ser Val Gln Gln His Ser Pro Ser Gly Gln Ala

180 185 190

Cys Leu Gln Arg Pro Ser Asp Trp Glu Ala Gln Val Pro Ala Ala Met
195 200 205

Gly Thr Gln Val Pro Leu Ala Asn Asn Pro Ser Phe Ser Leu Leu Gly
210 215 220

Ser Gln Ser Leu Arg Gln Ser Pro Val Gln Gly Pro Val Pro Val Ala
225 230 235 240

Asn Thr Thr Lys Phe Leu Gln Gln Gly Met Ala Ser Phe Ser Pro Leu
245 250 255

Ser Pro Ile Gln Gly Ile Glu Pro Pro Ser Tyr Val Ala Ala Ala Ala
260 265 270

Thr Ala Ala Ala Ala Ser Ala Val Ala Ala Ser Gln Phe Pro Gly Pro
275 280 285

Phe Asp Arg Thr Asp Ile Pro Pro Glu Leu Pro Pro Ala Asp Phe Leu
290 295 300

Arg Gln Pro Gln Pro Pro Leu Asn Asp Leu Ile Ser Ser Pro Asp Cys
305 310 315 320

Asn Glu Val Asp Phe Ile Glu Ala Leu Leu Lys Gly Ser Cys Val Ser
325 330 335

Pro Asp Glu Asp Trp Val Cys Asn Leu Arg Leu Ile Asp Asp Ile Leu
340 345 350

Glu Gln His Ala Ala Ala Gln Asn Ala Thr Ala Gln Asn Ser Gly Gln
355 360 365

Val Thr Gln Asp Ala Gly Ala Leu
370 375

<210> 2985

<211> 359

<212> PRT

<213> Homo sapiens

<400> 2985

Met Asn Ser Val Ala Gly Asn Lys Glu Arg Leu Ala Val Ser Thr Arg
 1 5 10 15
 Gly Lys Lys Tyr Gly Val Asn Glu Val Cys Ser Pro Thr Lys Pro Ala
 20 25 30
 Ala Pro Phe Ser Pro Glu Ser Trp Tyr Arg Lys Ala Tyr Glu Glu Ser
 35 40 45
 Arg Ala Gly Ser Arg Pro Thr Pro Glu Gly Ala Gly Ser Ala Leu Gly
 50 55 60
 Ser Ser Gly Thr Pro Ser Pro Gly Ser Gly Thr Ser Ser Pro Ser Ser
 65 70 75 80
 Phe Thr Ser Ser Pro Gly Pro Ala Ser Pro Gly Ile Gly Thr Ser Ser
 85 90 95
 Pro Gly Ser Leu Gly Gly Ser Pro Gly Phe Gly Ala Gly Ser Pro Gly
 100 105 110
 Ser Gly Ser Gly Gly Gly Ser Ser Pro Gly Ser Asp Arg Gly Val Trp
 115 120 125
 Cys Glu Asn Cys Asn Ala Arg Leu Val Glu Leu Lys Arg Gln Ala Leu
 130 135 140
 Arg Leu Leu Leu Pro Gly Pro Phe Pro Gly Lys Asp Pro Ala Phe Ser
 145 150 155 160
 Ala Val Ile His Asp Lys Leu Gln Val Pro Asn Thr Ile Arg Lys Ala
 165 170 175
 Trp Asn Asp Arg Asp Asn Arg Cys Asp Ile Cys Ala Thr His Leu Asn
 180 185 190
 Gln Leu Lys Gln Glu Ala Ile Gln Met Val Leu Thr Leu Glu Gln Ala
 195 200 205

Ala Gly Ser Glu His Tyr Asp Ala Ser Pro Cys Ser Pro Pro Pro Leu
 210 215 220
 Ser Asn Ile Pro Thr Leu Val Gly Ser Arg His Val Gly Gly Leu Gln
 225 230 235 240
 Gln Pro Arg Asp Trp Ala Phe Val Pro Ala Pro Cys Ala Thr Ser Asn
 245 250 255
 Tyr Thr Gly Phe Ala Asn Lys His Gly Ser Lys Pro Ser Ser Leu Gly
 260 265 270
 Val Ser Asn Gly Ala Glu Lys Lys Ser Gly Ser Pro Thr His Gln Ala
 275 280 285
 Lys Val Ser Leu Gln Met Ala Thr Ser Pro Ser Asn Gly Asn Ile Leu
 290 295 300
 Asn Ser Val Ala Ile Gln Ala His Gln Tyr Leu Asp Gly Thr Trp Ser
 305 310 315 320
 Leu Ser Arg Thr Asn Gly Val Thr Leu Tyr Pro Tyr Gln Ile Ser Gln
 325 330 335
 Leu Met Thr Glu Ser Ser Arg Glu Gly Leu Thr Glu Ala Ala Ala Thr
 340 345 350
 Ala Ala Thr Thr Ala Ala Cys
 355

<210> 2986

<211> 517

<212> PRT

<213> Homo sapiens

<400> 2986

Met Thr Val Pro Gly Gly Phe Arg Ser Cys Thr Glu Thr Asp Ile Ser

1	5	10	15
Ser Lys Ile Phe Ile Asn Ser Thr Leu Thr Pro Pro Ala Gly Ser Glu			
20	25	30	
Arg His Tyr Asp Ala Thr Leu Leu Thr Leu Leu Val Val Gly Ser Tyr			
35	40	45	
Ser Leu Cys Ile Ile Pro Leu Leu Ala Thr Phe Thr Gly Lys Lys Thr			
50	55	60	
Gly Asn Ala Ala Val Ile Lys Tyr Glu Glu Lys Pro Pro Lys Pro Ala			
65	70	75	80
Phe Gln Asn Gly Ser Ser Gly Ser Phe Tyr Leu Lys Pro Leu Val Ser			
85	90	95	
Arg Ala His Val His Leu Met Lys Thr Pro Pro Lys Gly Pro Ser Arg			
100	105	110	
Lys Asn Leu Phe Thr Ala Leu Asn Ala Val Glu Lys Ser Arg Gln Lys			
115	120	125	
Asn Pro Arg Ser Leu Cys Ile Gln Pro Gln Thr Ala Pro Asp Ala Leu			
130	135	140	
Pro Pro Glu Lys Thr Leu Glu Leu Thr Gln Tyr Lys Thr Lys Cys Glu			
145	150	155	160
Asn Gln Ser Gly Phe Ile Leu Gln Leu Lys Gln Leu Leu Ala Cys Gly			
165	170	175	
Asn Thr Lys Phe Glu Ala Leu Thr Val Val Ile Gln His Leu Leu Ser			
180	185	190	
Glu Arg Glu Glu Ala Leu Lys Gln His Lys Thr Leu Ser Gln Glu Leu			
195	200	205	
Val Asn Leu Arg Gly Glu Leu Val Thr Ala Ser Thr Thr Cys Glu Lys			
210	215	220	
Leu Glu Lys Ala Arg Asn Glu Leu Gln Thr Val Tyr Glu Ala Phe Val			
225	230	235	240

Gln Gln His Gln Ala Glu Lys Thr Glu Arg Glu Asn Arg Leu Lys Glu
245 250 255
Phe Tyr Thr Arg Glu Tyr Glu Lys Leu Arg Asp Thr Tyr Ile Glu Glu
260 265 270
Ala Glu Lys Tyr Lys Met Gln Leu Gln Glu Gln Phe Asp Asn Leu Asn
275 280 285
Ala Ala His Glu Thr Ser Lys Leu Glu Ile Glu Ala Ser His Ser Glu
290 295 300
Lys Leu Glu Leu Leu Lys Lys Ala Tyr Glu Ala Ser Leu Ser Glu Ile
305 310 315 320
Lys Lys Gly His Glu Ile Glu Lys Lys Ser Leu Glu Asp Leu Leu Ser
325 330 335
Glu Lys Gln Glu Ser Leu Glu Lys Gln Ile Asn Asp Leu Lys Ser Glu
340 345 350
Asn Asp Ala Leu Asn Glu Lys Leu Lys Ser Glu Glu Gln Lys Arg Arg
355 360 365
Ala Arg Glu Lys Ala Asn Leu Lys Asn Pro Gln Ile Met Tyr Leu Glu
370 375 380
Gln Glu Leu Glu Ser Leu Lys Ala Val Leu Glu Ile Lys Asn Glu Lys
385 390 395 400
Leu His Gln Gln Asp Ile Lys Leu Met Lys Met Glu Lys Leu Val Asp
405 410 415
Asn Asn Thr Ala Leu Val Asp Lys Leu Lys Arg Phe Gln Gln Glu Asn
420 425 430
Glu Glu Leu Lys Ala Arg Met Asp Lys His Met Ala Ile Ser Arg Gln
435 440 445
Leu Ser Thr Glu Gln Ala Val Leu Gln Glu Ser Leu Glu Lys Glu Ser
450 455 460
Lys Val Asn Lys Arg Leu Ser Met Glu Asn Glu Glu Leu Leu Trp Lys

465 470 475 480
 Leu His Asn Gly Asp Leu Cys Ser Pro Lys Arg Ser Pro Thr Ser Ser
 485 490 495
 Ala Ile Pro Leu Gln Ser Pro Arg Asn Ser Gly Ser Phe Pro Ser Pro
 500 505 510
 Ser Ile Ser Pro Arg
 515

<210> 2987

<211> 541

<212> PRT

<213> Homo sapiens

<400> 2987

Met Ala Gln Leu Glu Arg Ser Ala Ile Ser Gly Phe Ser Ser Lys Ser
 1 5 10 15
 Arg Arg Asn Ser Phe Ala Tyr Asp Val Lys Arg Glu Val Tyr Asn Glu
 20 25 30
 Glu Thr Phe Gln Gln Glu His Lys Arg Lys Ala Ser Ser Ser Gly Asn
 35 40 45
 Met Asn Ile Asn Ile Thr Thr Phe Arg His His Val Gln Cys Arg Cys
 50 55 60
 Ser Trp His Arg Phe Leu Arg Cys Val Leu Thr Ile Phe Pro Phe Leu
 65 70 75 80
 Glu Trp Met Cys Met Tyr Arg Leu Lys Asp Trp Leu Leu Gly Asp Leu
 85 90 95
 Leu Ala Gly Ile Ser Val Gly Leu Val Gln Val Pro Gln Gly Leu Thr
 100 105 110

Leu Ser Leu Pro Ala Arg Gln Leu Ile Pro Pro Leu Asn Ile Ala Tyr
115 120 125
Ala Ala Phe Cys Ser Ser Val Ile Tyr Val Ile Phe Gly Ser Cys His
130 135 140
Gln Met Ser Ile Gly Ser Phe Phe Leu Val Ser Ala Leu Leu Ile Asn
145 150 155 160
Val Leu Lys Val Ser Pro Phe Asn Asn Gly Gln Leu Val Met Gly Ser
165 170 175
Phe Val Lys Asn Glu Phe Ser Ala Pro Ser Tyr Leu Met Gly Tyr Asn
180 185 190
Lys Ser Leu Ser Val Val Ala Thr Thr Thr Phe Leu Thr Gly Ile Ile
195 200 205
Gln Leu Ile Met Gly Val Leu Gly Leu Gly Phe Ile Ala Thr Tyr Leu
210 215 220
Pro Glu Ser Ala Met Ser Ala Tyr Leu Ala Ala Val Ala Leu His Ile
225 230 235 240
Met Leu Ser Gln Leu Thr Phe Ile Phe Gly Ile Met Ile Ser Phe His
245 250 255
Ala Gly Pro Ile Ser Phe Phe Tyr Asp Ile Ile Asn Tyr Cys Val Ala
260 265 270
Leu Pro Lys Ala Asn Ser Thr Ser Ile Leu Val Phe Leu Thr Val Val
275 280 285
Val Ala Leu Arg Ile Asn Lys Cys Ile Arg Ile Ser Phe Asn Gln Tyr
290 295 300
Pro Ile Glu Phe Pro Met Glu Leu Phe Leu Ile Ile Gly Phe Thr Val
305 310 315 320
Ile Ala Asn Lys Ile Ser Met Ala Thr Glu Thr Ser Gln Thr Leu Ile
325 330 335
Asp Met Ile Pro Tyr Ser Phe Leu Leu Pro Val Thr Pro Asp Phe Ser

340	345	350
Leu Leu Pro Lys Ile Ile Leu Gln Ala Phe Ser Leu Ser Leu Val Ser		
355	360	365
Ser Phe Leu Leu Ile Phe Leu Gly Lys Lys Ile Ala Ser Leu His Asn		
370	375	380
Tyr Ser Val Asn Ser Asn Gln Asp Leu Ile Ala Ile Gly Leu Cys Asn		
385	390	395
Val Val Ser Ser Phe Phe Arg Ser Cys Val Phe Thr Gly Ala Ile Ala		
405	410	415
Arg Thr Ile Ile Gln Asp Lys Ser Gly Gly Arg Gln Gln Phe Ala Ser		
420	425	430
Leu Val Gly Ala Gly Val Met Leu Leu Leu Met Val Lys Met Gly His		
435	440	445
Phe Phe Tyr Thr Leu Pro Asn Ala Val Leu Ala Gly Ile Ile Leu Ser		
450	455	460
Asn Val Ile Pro Tyr Leu Glu Thr Ile Ser Asn Leu Pro Ser Leu Trp		
465	470	475
Arg Gln Asp Gln Tyr Asp Cys Ala Leu Trp Met Met Thr Phe Ser Ser		
485	490	495
Ser Ile Phe Leu Gly Leu Asp Ile Gly Leu Ile Ile Ser Val Val Ser		
500	505	510
Ala Phe Phe Ile Thr Thr Val Arg Ser His Arg Tyr Phe Val Ser Gly		
515	520	525
Asn Arg Arg Leu Thr Arg Gln Gly Lys Pro Thr Leu Thr		
530	535	540

<210> 2988

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2988

Met Arg Thr Lys Pro Ser Gln Gly Phe Gly Val Ser Pro Glu Thr Pro
1 5 10 15
Leu Ser Trp Pro Gly Gly Gln Arg Ser Thr Leu Gln Glu Pro Pro Arg
20 25 30
Gly Arg Trp Ala Thr Ser Pro Asn Lys Arg His Thr Arg Arg Pro Leu
35 40 45
Ala Arg Gly Gly Ile Cys Gly Leu Pro Arg Ala Lys Ala Ala Ala Pro
50 55 60
Gly Ala Gln Pro Val Thr Gly His Leu His Ala Ser Thr Gln Gln Thr
65 70 75 80
Trp Pro Gly Gly Gln Cys Pro Trp Pro Leu Ala Asn Arg Thr Leu Trp
85 90 95
Asn Arg Arg Asn Leu Gly Ser Cys Pro Ala Leu Trp Pro Ala Ser Pro
100 105 110
Trp Met Leu Leu Pro Gly Arg Thr Glu Pro Leu Pro Val Trp Pro Val
115 120 125
Pro Ala Phe Ser Gln Ile Gln Pro Arg Pro Leu Trp Ile Arg Ser Gly
130 135 140
His Arg Gln Thr Lys Gln Ala Val Ala Ser Leu Ala Gly Ser Asp Leu
145 150 155 160
Leu Gln His Lys Glu Arg Met His Cys Thr Ala Arg Pro Leu Gly Thr
165 170 175
Glu Gly Arg Cys Ser Ala Val Ser Phe Cys Tyr Arg
180 185

<210> 2989

<211> 607

<212> PRT

<213> Homo sapiens

<400> 2989

Met Gln Glu Ser Gln Glu Pro Asn Leu Glu Asn Ile Trp Gly Gln Glu

1 5 10 15

Ala Ala Glu Val Asp Gln Glu Leu Val Glu Leu Leu Val Lys Glu Thr

20 25 30

Glu Ala Arg Phe Pro Asp Val Ala Asn Gly Phe Ile Glu Glu Ile Ile

35 40 45

His Phe Lys Asn Tyr Tyr Asp Leu Asn Val Leu Cys Asn Phe Leu Leu

50 55 60

Glu Asn Pro Asp Tyr Pro Lys Arg Glu Asp Arg Ile Ile Ile Asn Pro

65 70 75 80

Ser Ser Ser Leu Leu Ala Ser Gln Asp Glu Thr Lys Leu Pro Lys Ile

85 90 95

Asp Phe Phe Asp Tyr Ser Lys Leu Thr Pro Leu Asp Gln Arg Cys Phe

100 105 110

Ile Gln Ala Ala Asp Leu Leu Met Ala Asp Phe Lys Val Leu Ser Ser

115 120 125

Gln Asp Ile Lys Trp Ala Leu His Glu Leu Lys Gly His Tyr Ala Ile

130 135 140

Thr Arg Lys Ala Leu Ser Asp Ala Ile Lys Lys Trp Gln Glu Leu Ser

145 150 155 160

Pro Glu Thr Gly Gly Lys Arg Lys Lys Arg Lys Gln Met Asn Gln Tyr

165 170 175

Ser Tyr Ile Asp Phe Lys Phe Glu Gln Gly Asp Ile Lys Ile Glu Lys
 180 185 190
 Arg Met Phe Phe Leu Glu Asn Lys Arg Arg His Cys Arg Ser Tyr Asp
 195 200 205
 Arg Arg Ala Leu Leu Pro Ala Val Gln Gln Glu Gln Glu Phe Tyr Glu
 210 215 220
 Gln Lys Ile Lys Glu Met Ala Glu His Glu Asp Phe Leu Leu Ala Leu
 225 230 235 240
 Gln Met Asn Glu Glu Gln Tyr Gln Lys Asp Gly Gln Leu Ile Glu Cys
 245 250 255
 Arg Cys Cys Tyr Gly Glu Phe Pro Phe Glu Glu Leu Thr Gln Cys Ala
 260 265 270
 Asp Ala His Leu Phe Cys Lys Glu Cys Leu Ile Arg His Ala Gln Glu
 275 280 285
 Ala Val Phe Gly Ser Gly Lys Leu Glu Leu Ser Cys Met Glu Gly Ser
 290 295 300
 Cys Thr Cys Ser Phe Pro Thr Ser Glu Leu Glu Lys Val Leu Pro Gln
 305 310 315 320
 Thr Ile Leu Tyr Lys Tyr Tyr Glu Arg Lys Ala Glu Glu Glu Val Ala
 325 330 335
 Ala Ala Tyr Ala Asp Glu Leu Val Arg Cys Pro Ser Cys Ser Phe Pro
 340 345 350
 Ala Leu Leu Asp Ser Asp Val Lys Arg Phe Ser Cys Pro Asn Pro His
 355 360 365
 Cys Arg Lys Glu Thr Cys Arg Lys Cys Gln Gly Leu Trp Lys Glu His
 370 375 380
 Asn Gly Leu Thr Cys Glu Glu Leu Ala Glu Lys Asp Asp Ile Lys Tyr
 385 390 395 400
 Arg Thr Ser Ile Glu Glu Lys Met Thr Ala Ala Arg Ile Arg Lys Cys

	405		410		415
His	Lys	Cys	Gly	Thr	Gly
Leu	Ile	Lys	Ser	Glu	Gly
Cys	Asn	Arg	Met		
	420		425		430
Ser	Cys	Arg	Cys	Gly	Ala
Gln	Met	Cys	Tyr	Leu	Cys
Arg	Val	Ser	Ile		
	435		440		445
Asn	Gly	Tyr	Asp	His	Phe
Cys	Gln	His	Pro	Arg	Ser
Pro	Gly	Ala	Pro		
	450		455		460
Cys	Gln	Glu	Cys	Ser	Arg
Cys	Ser	Leu	Trp	Thr	Asp
Pro	Thr	Glu	Asp		
	465		470		475
					480
Asp	Glu	Lys	Leu	Ile	Glu
Glu	Ile	Gln	Lys	Glu	Ala
Glu	Glu	Glu	Gln		
	485		490		495
Lys	Arg	Lys	Asn	Gly	Glu
Asn	Thr	Phe	Lys	Arg	Ile
Gly	Pro	Pro	Leu		
	500		505		510
Glu	Lys	Pro	Val	Glu	Lys
Val	Gln	Arg	Val	Glu	Ala
Leu	Pro	Arg	Pro		
	515		520		525
Val	Pro	Gln	Asn	Leu	Pro
Gln	Pro	Gln	Met	Pro	Pro
Tyr	Ala	Phe	Ala		
	530		535		540
His	Pro	Pro	Phe	Pro	Leu
Pro	Pro	Val	Arg	Pro	Val
Phe	Asn	Asn	Phe		
	545		550		555
					560
Pro	Leu	Asn	Met	Gly	Pro
Ile	Pro	Ala	Pro	Tyr	Val
Pro	Pro	Leu	Pro		
	565		570		575
Asn	Val	Arg	Val	Asn	Tyr
Asp	Phe	Gly	Pro	Ile	His
Met	Pro	Leu	Glu		
	580		585		590
His	Asn	Leu	Pro	Met	His
Phe	Gly	Pro	Gln	Pro	Arg
His	Arg	Phe			
	595		600		605

<210> 2990

<211> 473

<212> PRT

<213> Homo sapiens

<400> 2990

Met	Asp	Ile	Gln	Ala	Met	Glu	Glu	Asn	Leu	Leu	Arg	Ile	Thr	Glu	Thr
1				5					10					15	
Trp	Lys	Ala	Tyr	Asn	Ser	Asp	Phe	Glu	Glu	Ser	Asp	Glu	Phe	Lys	Leu
				20				25						30	
Phe	Met	Lys	Arg	Leu	Pro	Met	Asn	Tyr	Phe	Leu	Asn	Thr	Ser	Thr	Ile
				35				40						45	
Met	His	Leu	Trp	Thr	Met	Asp	Ser	Asn	Phe	Gln	Arg	Arg	Tyr	Glu	Gln
				50				55						60	
Leu	Glu	Asn	Ser	Met	Lys	Gln	Leu	Phe	Leu	Lys	Ala	Gln	Lys	Ile	Val
				65				70						75	
His	Lys	Leu	Phe	Ser	Leu	Ser	Lys	Arg	Cys	His	Lys	Gln	Pro	Leu	Ile
				85				90						95	
Ser	Leu	Pro	Arg	Gln	Arg	Thr	Ser	Thr	Tyr	Trp	Leu	Thr	Arg	Ile	Gln
				100				105						110	
Ser	Phe	Leu	Tyr	Cys	Asn	Glu	Asn	Gly	Leu	Leu	Gly	Ser	Phe	Ser	Glu
				115				120						125	
Glu	Thr	His	Ser	Cys	Thr	Cys	Pro	Asn	Asp	Gln	Val	Val	Cys	Thr	Ala
				130				135						140	
Phe	Leu	Pro	Cys	Thr	Val	Gly	Asp	Ala	Ser	Ala	Cys	Leu	Thr	Cys	Ala
				145				150						155	
Pro	Asp	Asn	Arg	Thr	Arg	Cys	Gly	Thr	Cys	Asn	Thr	Gly	Tyr	Met	Leu
				165				170						175	
Ser	Gln	Gly	Leu	Cys	Lys	Pro	Glu	Val	Ala	Glu	Ser	Thr	Asp	His	Tyr
				180				185						190	
Ile	Gly	Phe	Glu	Thr	Asp	Leu	Gln	Asp	Leu	Glu	Met	Lys	Tyr	Leu	Leu

195 200 205
Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala Ile Phe Ile Ser Asn
210 215 220
Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser Trp Arg Lys Arg Met
225 230 235 240
Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser Ser Leu Val His Met
245 250 255
Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr Lys Asn Ser Thr Leu
260 265 270
Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe Gly Gly Ser His Ser
275 280 285
Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser Phe Pro Asp Trp Glu
290 295 300
Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr Asn Trp Thr Leu Thr
305 310 315 320
Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr Val His Ile Tyr Leu
325 330 335
Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly Asn Glu Ser Ile Tyr
340 345 350
Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg Asn Leu Gly Tyr Met
355 360 365
Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser Met His Phe Asp Pro
370 375 380
Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp Tyr Pro Tyr Thr Gln
385 390 395 400
Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu Glu Phe Arg Asp Arg
405 410 415
Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg Leu Asp Leu Phe Ser
420 425 430

Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr Ser Glu Val Val Arg
 435 440 445
 Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys Leu Pro Asn Thr Met
 450 455 460
 Asp Tyr Asp Thr Thr Lys Leu Cys Ser
 465 470

<210> 2991

<211> 419

<212> PRT

<213> Homo sapiens

<400> 2991

Met Leu Ala Ala Ala Phe Ala Asp Ser Asn Ser Ser Ser Met Asn Val
 1 5 10 15
 Ser Phe Ala His Leu His Phe Ala Gly Gly Tyr Leu Pro Ser Asp Ser
 20 25 30
 Gln Asp Trp Arg Thr Ile Ile Pro Ala Leu Leu Val Ala Val Cys Leu
 35 40 45
 Val Gly Phe Val Gly Asn Leu Cys Val Ile Gly Ile Leu Leu His Asn
 50 55 60
 Ala Trp Lys Gly Lys Pro Ser Met Ile His Ser Leu Ile Leu Asn Leu
 65 70 75 80
 Ser Leu Ala Asp Leu Ser Leu Leu Leu Phe Ser Ala Pro Ile Arg Ala
 85 90 95
 Thr Ala Tyr Ser Lys Ser Val Trp Asp Leu Gly Trp Phe Val Cys Lys
 100 105 110
 Ser Ser Asp Trp Phe Ile His Thr Cys Met Ala Ala Lys Ser Leu Thr

115 120 125
Ile Val Val Val Ala Lys Val Cys Phe Met Tyr Ala Ser Asp Pro Ala
130 135 140
Lys Gln Val Ser Ile His Asn Tyr Thr Ile Trp Ser Val Leu Val Ala
145 150 155 160
Ile Trp Thr Val Ala Ser Leu Leu Pro Leu Pro Glu Trp Phe Phe Ser
165 170 175
Thr Ile Arg His His Glu Gly Val Glu Met Cys Leu Val Asp Val Pro
180 185 190
Ala Val Ala Glu Glu Phe Met Ser Met Phe Gly Lys Leu Tyr Pro Leu
195 200 205
Leu Ala Phe Gly Leu Pro Leu Phe Phe Ala Ser Phe Tyr Phe Trp Arg
210 215 220
Ala Tyr Asp Gln Cys Lys Lys Arg Gly Thr Lys Thr Gln Asn Leu Arg
225 230 235 240
Asn Gln Ile Arg Ser Lys Gln Val Thr Val Met Leu Leu Ser Ile Ala
245 250 255
Ile Ile Ser Ala Leu Leu Trp Leu Pro Glu Trp Val Ala Trp Leu Trp
260 265 270
Val Trp His Leu Lys Ala Ala Gly Pro Ala Pro Pro Gln Gly Phe Ile
275 280 285
Ala Leu Ser Gln Val Leu Met Phe Ser Ile Ser Ser Ala Asn Pro Leu
290 295 300
Ile Phe Leu Val Met Ser Glu Glu Phe Arg Glu Gly Leu Lys Gly Val
305 310 315 320
Trp Lys Trp Met Ile Thr Lys Lys Pro Pro Thr Val Ser Glu Ser Gln
325 330 335
Glu Thr Pro Ala Gly Asn Ser Glu Gly Leu Pro Asp Lys Val Pro Ser
340 345 350

Pro Glu Ser Pro Ala Ser Ile Pro Glu Lys Glu Lys Pro Ser Ser Pro
 355 360 365
 Ser Ser Gly Lys Gly Lys Thr Glu Lys Ala Glu Ile Pro Ile Leu Pro
 370 375 380
 Asp Val Glu Gln Phe Trp His Glu Arg Asp Thr Val Pro Ser Val Gln
 385 390 395 400
 Asp Asn Asp Pro Ile Pro Trp Glu His Glu Asp Gln Glu Thr Gly Glu
 405 410 415
 Gly Val Lys

<210> 2992

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2992

Met Thr Pro Pro Gly Thr Ser Tyr Pro Ser Gln Thr Pro Val Gln Pro
 1 5 10 15
 Ala Pro Asp Val Asp Tyr Asp Ser Ala Thr Ser Ala Gly Ser Glu Val
 20 25 30
 Gly Val Ser Pro Ser Cys Arg Arg Val Trp Ala Ala Pro Leu Gln Thr
 35 40 45
 Ser Cys Ala Pro Trp Ala Ala Pro His Leu His Pro His Pro Arg Gly
 50 55 60
 Ser Ala Pro Lys Ala Ala Ala Ser Gly Glu Ala Arg Ser Pro Arg Ser
 65 70 75 80
 Ser Trp Trp Gly Glu Arg Arg Arg Pro Ser Glu Asp Ala Leu Gly Thr

	85	90	95
Trp Glu Arg Lys Glu Gly Lys Glu Glu Gly Lys Gly Ala Val Asp Val			
100	105	110	
Phe Asp Val Cys Ala Leu Met Glu Ala Thr Asn Ile Glu Lys Thr Gly			
115	120	125	
Leu Ala Glu Ala Ala Arg Thr Leu Leu Leu Ala Ser Ala Arg Val Lys			
130	135	140	
Ala Arg Ala Asn Arg Gly Leu Ser Gly Cys Pro Lys Gly Ala Asp Thr			
145	150	155	160
Trp Phe Ser Thr Gly Thr Gln Asn Ser His Arg Gly Arg Lys Met Arg			
165	170	175	
Ser Leu Cys Leu Pro Val Gly Lys Arg Asp Ile Gln Lys			
180	185		

<210> 2993

<211> 401

<212> PRT

<213> Homo sapiens

<400> 2993

Met Ala Cys Leu Glu Phe Val Pro Phe Asp Val Gln Met Cys Leu Glu			
1	5	10	15
Phe Leu Pro Ser Gly Glu Phe Val Val Leu Leu Thr Ser Gly Val Gln			
20	25	30	
Leu Gln Thr Phe Thr Ala Ser Val Thr Asp Leu Lys Gly Gly Ala Ser			
35	40	45	
Gly Val Val Arg Ser Ser Arg Trp Val Arg Gly Phe Thr Asp Phe Arg			
50	55	60	

Ser Lys Ala Val Asp Leu Cys Gly Pro Lys Pro Val Val Phe Leu Gln
 65 70 75 80
 His Gly Leu Leu Ala Asp Ser Ser Asn Trp Val Thr Asn Leu Ala Asn
 85 90 95
 Ser Ser Leu Gly Phe Ile Leu Ala Asp Ala Gly Phe Asp Val Trp Met
 100 105 110
 Gly Asn Ser Arg Gly Asn Thr Trp Ser Arg Lys His Lys Thr Leu Ser
 115 120 125
 Val Ser Gln Asp Glu Phe Trp Ala Phe Arg Val Pro Phe Leu Asp Tyr
 130 135 140
 Ser Tyr Asp Glu Met Ala Lys Tyr Asp Leu Pro Ala Ser Ile Asn Phe
 145 150 155 160
 Ile Leu Asn Lys Thr Gly Gln Glu Gln Val Tyr Tyr Val Gly His Ser
 165 170 175
 Gln Gly Thr Thr Ile Gly Phe Ile Ala Phe Ser Gln Ile Pro Glu Leu
 180 185 190
 Ala Lys Arg Ile Lys Met Phe Phe Ala Leu Gly Pro Val Ala Ser Val
 195 200 205
 Ala Phe Cys Thr Ser Pro Met Ala Lys Leu Gly Arg Leu Pro Asp His
 210 215 220
 Leu Ile Lys Asp Leu Phe Gly Asp Lys Glu Phe Leu Pro Gln Ser Ala
 225 230 235 240
 Phe Leu Lys Trp Leu Gly Thr His Val Cys Thr His Val Ile Leu Lys
 245 250 255
 Glu Leu Cys Gly Asn Leu Cys Phe Leu Leu Cys Gly Phe Asn Glu Arg
 260 265 270
 Asn Leu Asn Met Ser Arg Val Asp Val Tyr Thr Thr His Ser Pro Ala
 275 280 285
 Gly Thr Ser Val Gln Asn Met Leu His Trp Ser Gln Ala Val Lys Phe

290 295 300
 Gln Lys Phe Gln Ala Phe Asp Trp Gly Ser Ser Ala Lys Asn Tyr Phe
 305 310 315 320
 His Tyr Asn Gln Ser Tyr Pro Pro Thr Tyr Asn Val Lys Asp Met Leu
 325 330 335
 Val Pro Thr Ala Val Trp Ser Gly Gly His Asp Trp Leu Ala Asp Val
 340 345 350
 Tyr Asp Val Asn Ile Leu Leu Thr Gln Ile Thr Asn Leu Val Phe His
 355 360 365
 Glu Ser Ile Pro Glu Trp Glu His Leu Asp Phe Ile Trp Gly Leu Asp
 370 375 380
 Ala Pro Trp Arg Leu Tyr Asn Lys Ile Ile Asn Leu Met Arg Lys Tyr
 385 390 395 400
 Gln

<210> 2994

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2994

Met His Val Cys Thr Gly Ala Ser Lys Pro Leu Val Ser Thr Pro Tyr
 1 5 10 15
 His Pro Thr Pro Thr Ser Leu Ile Ser Ala Pro Ser Leu Gly Cys Ala
 20 25 30
 Pro Leu Leu Ser Ala Arg Gly Cys Leu His Val Gly Val Cys Met Trp
 35 40 45

Val Ser Val Pro Ser Ser Val Ser Cys Leu His Val Gly Val Cys Thr
50 55 60
Leu Thr Cys Leu Val Ser Ala Gln Ala Cys Val Gly Val Pro Ala Gly
65 70 75 80
Leu Phe Gly Gly Arg Pro Val Ile Leu Glu Val Thr His Val Phe Cys
85 90 95
Gly Cys Leu Leu Leu Ala Pro His Ser Val Glu Met Gly Leu His Trp
100 105 110
Pro Arg Leu Ser Pro Ala His Pro Pro Pro Ser Leu Pro Ala Ser Lys
115 120 125
Pro Arg Asn Ser Gly Phe Arg Gly Pro Ser Gln Val Ser Thr Trp Gln
130 135 140
Gln Cys Leu Gln Thr Pro Gly Trp Pro Ile Cys Pro Pro Ala Arg Leu
145 150 155 160
Ser Asp Leu Ser Leu Pro Gly Cys Pro Cys Leu His Pro Ser Ser Pro
165 170 175
Ser His Cys Arg Cys Leu Pro Thr Ser His Pro Trp Val Pro Ser Gln
180 185 190
Pro Leu Trp Pro Pro Gln Leu Gly Pro Leu Ser Ser Arg Leu Pro His
195 200 205
Pro Val Leu Leu Pro Pro Ser
210 215

<210> 2995

<211> 358

<212> PRT

<213> Homo sapiens

<400> 2995

Met	Glu	Gly	Glu	Gly	Val	Arg	Asn	Phe	Lys	Glu	Leu	Arg	Ala	Lys	Phe
1					5					10					15
Gln	Asn	Leu	Asp	Ala	Pro	Pro	Leu	Pro	Gly	Pro	Ile	Lys	Phe	Pro	Ala
			20						25						30
Gly	Val	Ser	Pro	Lys	Gly	Asp	Ile	Gly	Gly	Thr	Gln	Ser	Thr	Gln	Ile
			35					40						45	
Leu	Ala	Asn	Gly	Lys	Pro	Leu	Ser	Ser	Asn	His	Lys	Gln	Arg	Thr	Pro
		50					55					60			
Tyr	Cys	Ser	Ser	Ser	Glu	Ser	Gln	Pro	Leu	Gln	Pro	Gln	Lys	Ile	Lys
		65					70				75				80
Leu	Ala	Gln	Lys	Ser	Glu	Ile	Pro	Lys	Cys	Ser	Asn	Ser	Pro	Gly	Pro
						85					90				95
Leu	Gly	Lys	Ser	Thr	Val	Cys	Ser	Ala	Thr	Ser	Ser	Gln	Lys	Ala	Ser
						100								110	
Leu	Leu	Leu	Glu	Val	Thr	Gln	Ser	Asn	Val	Glu	Ile	Ile	Thr	Lys	Glu
			115					120						125	
Lys	Val	Met	Val	Ala	Asn	Ser	Phe	Arg	Asn	Lys	Leu	Trp	Asn	Trp	Glu
						130						140			
Lys	Val	Ser	Ser	Gln	Lys	Ser	Glu	Met	Ser	Ser	Ala	Leu	Leu	Leu	Ala
						145						155			160
Asn	Tyr	Gly	Ser	Lys	Ala	Ile	His	Leu	Glu	Gly	Gln	Lys	Gly	Met	Gly
						165						170			175
Leu	Thr	Pro	Glu	Glu	Pro	Arg	Lys	Lys	Leu	Glu	Thr	Lys	Gly	Ala	Gln
						180								190	
Thr	Leu	Pro	Ser	Gln	Lys	His	Val	Val	Ala	Pro	Lys	Ile	Leu	His	Asn
						195								205	
Val	Ser	Glu	Asp	Pro	Ser	Phe	Val	Ile	Ser	Gln	His	Ile	Arg	Lys	Ser
						210								220	

Trp Glu Asn Pro Pro Pro Glu Arg Ser Pro Ala Ser Ser Pro Cys Gln
 225 230 235 240
 Pro Ile Tyr Glu Cys Glu Leu Ala Ser Gln Ala Pro Glu Lys Gln Pro
 245 250 255
 Asp Val Arg His His His Leu Pro Lys Thr Lys Pro Leu Pro Ser Ile
 260 265 270
 Asp Ser Leu Gly Pro Pro Pro Pro Lys Pro Ser Arg Pro Pro Ile Val
 275 280 285
 Asn Leu Gln Ala Phe Gln Arg Gln Pro Ala Ala Val Pro Lys Thr Gln
 290 295 300
 Gly Glu Val Thr Val Glu Glu Gly Ser Leu Ser Pro Glu Arg Leu Phe
 305 310 315 320
 Asn Ala Glu Phe Glu Glu Pro His Asn Tyr Glu Ala Thr Ile Ser Tyr
 325 330 335
 Leu Arg His Ser Gly Asn Ser Ile Asn Leu Cys Thr Ala Lys Glu Ile
 340 345 350
 Ala Asp Arg Arg Cys Leu
 355

<210> 2996

<211> 261

<212> PRT

<213> Homo sapiens

<400> 2996

Met Thr Ile Gln Arg Leu Lys Gly Ser Ser His Ala Val His Glu Met
 1 5 10 15
 Lys Ser Leu Lys Gln Glu Lys Ala Pro Val Ser Lys Thr Tyr Lys Val

20	25	30
Pro Leu Asn Gly Gln Val Tyr Glu Leu Leu Thr Val Phe Met Asp Trp		
35	40	45
Ile Ser Asp His His Leu Ser Lys Val Lys His Glu Glu Ser Gly Met		
50	55	60
Asp Gly Lys Lys Pro Gln Leu Lys Phe Ala Ser Gln Arg Asn Asp Ile		
65	70	75
Gln Glu Lys Cys Val Lys Leu Leu Pro Leu Met Thr Glu Gln Leu Gln		
85	90	95
Trp Met Pro Phe Val Asn Ile Lys Leu His Glu Pro Phe Val Lys Phe		
100	105	110
Ile Tyr Trp Ser Leu Arg Gln Leu Asp Ala Gly Ala Gln His Ser Thr		
115	120	125
Met Thr Ser Thr Leu Arg Arg Leu Gly Glu Asp Ile Phe Lys Gly Val		
130	135	140
Val Thr Lys Gly Ile Gln Asp Asn Ser Pro Gln His Ser Val Glu Asn		
145	150	155
Lys Pro Lys Thr Ala Ala Phe Phe Lys Ser Ser Asn Leu Pro Leu Arg		
165	170	175
Phe Leu Ser Thr Leu Ile Val Leu Lys Thr Val Thr Gln Ala Asp Tyr		
180	185	190
Leu Ala Gln Ala Phe Asp Ser Leu Cys Leu Asp Leu Lys Thr Glu Glu		
195	200	205
Gly Lys Thr Leu Phe Leu Glu Tyr Gln Ala Val Pro Val Ile Leu Ser		
210	215	220
His Leu Arg Ile Ser Ser Lys Gly Leu Leu Ser Asn Val Ile Asp Ser		
225	230	235
Leu Leu Gln Met Thr Val Glu Ser Arg Val Ile Arg Ser Ser Leu Asn		
245	250	255

Phe Leu Arg Phe Ile

260

<210> 2997

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2997

Met Tyr Gly Cys Tyr Thr Pro Thr Ala Tyr Ser Thr Arg Ser Ala Pro

1

5

10

15

Glu Glu Asp Trp Val Lys Leu Cys Lys Phe Gly Phe Pro Gly Asn Ala

20

25

30

Leu His Tyr Ser Ala Pro Asp Leu Pro Thr Thr Pro Val Gly Thr Arg

35

40

45

Ser Ser Thr His Leu Ala Glu Leu Met Thr Ala Trp Ala Gln Arg Ser

50

55

60

Ala His Cys Ala Asn Thr Arg Thr Gly Ile Ala Pro Leu Pro Glu Pro

65

70

75

80

Pro Tyr Arg Ala Pro Phe Lys Glu Leu Ala Thr Pro Leu Thr Cys Lys

85

90

95

Gln Pro Pro Thr Leu Lys Leu Ile Arg Thr Arg Val Phe His Pro Lys

100

105

110

Gly Leu Cys Cys Gly Arg Cys Ser Asp Pro Arg Arg Gly Arg Glu Val

115

120

125

Pro Lys Ala Thr Ala Arg Gly Trp Gly Thr Pro Leu Leu Thr Leu Val

130

135

140

Leu Asp Phe Glu Gly Pro Asn

145

150

<210> 2998

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2998

Met Pro Arg Gly Leu Arg Pro Gly Cys Pro Val Arg Thr Gly Arg Leu

1

5

10

15

Val Thr Leu Glu Ser Pro Leu Gln Val Pro Ala Pro Pro Gly Asn Pro

20

25

30

Gln Pro Pro Arg Arg Ala Trp Ala Ser Pro Tyr Arg Trp Gly Ala Ala

35

40

45

Gln Cys Thr Pro Glu Gly Gly Arg Arg Gly Leu Gly Thr Pro Pro Val

50

55

60

Leu Arg Arg Arg Gly Leu Arg Arg Cys Cys Pro Pro Gln Arg Ala Leu

65

70

75

80

Gly Leu Gly Leu Arg Arg Ser Lys Cys Leu Pro Gly Ala Gly Arg Gln

85

90

95

Gly Gly Ala Gly Ala Ala Arg Cys Ala Ala Ala Leu Gly Arg Arg Arg

100

105

110

Arg Thr Gly Ala Arg Gly Val Arg Gly Ala Arg Gln Ala Ala Ser Ala

115

120

125

Leu Ala Leu Arg Gly Arg Arg Asp Ser Arg Asp Arg Pro Trp Gly Pro

130

135

140

Gly Val

145

<210> 2999

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2999

```

Met Leu Gly Ala Gly Leu Ile Lys Ile Arg Gly Asp Arg Cys Trp Arg
  1           5           10          15
Asp Leu Thr Cys Met Asp Phe His Tyr Glu Thr Gln Pro Met Pro Asn
          20           25           30
Pro Val Ala Tyr Tyr Leu His His Ser Pro Trp Trp Phe His Arg Phe
          35           40           45
Glu Thr Leu Ser Asn His Phe Ile Glu Leu Leu Val Pro Phe Phe Leu
          50           55           60
Phe Leu Gly Arg Arg Ala Cys Ile Ile His Gly Val Leu Gln Ile Leu
          65           70           75           80
Phe Gln Ala Val Leu Ile Val Ser Gly Asn Leu Ser Phe Leu Asn Trp
          85           90           95
Leu Thr Met Val Pro Ser Leu Ala Cys Phe Asp Asp Ala Thr Leu Gly
          100          105          110
Phe Leu Phe Pro Ser Gly Pro Gly Ser Leu Lys Asp Arg Val Leu Gln
          115          120          125
Met Gln Arg Asp Ile Arg Gly Ala Trp Pro Glu Pro Arg Phe Gly Ser
          130          135          140
Val Val Gln Arg Ala Ala Asn Val Ser Leu Gly Val Leu Leu Ala Trp
          145          150          155          160
Leu Ser Val Pro Val Val Leu Asn Leu Leu Ser Ser Arg Gln Val Met

```

165	170	175
Asn Thr His Phe Asn Ser Leu His Ile Val Asn Thr Tyr Gly Ala Phe		
180	185	190
Gly Ser Ile Thr Lys Glu Arg Ala Glu Val Ile Leu Gln Gly Thr Ala		
195	200	205
Ser Ser Asn Ala Ser Ala Pro Asp Ala Met Trp Glu Asp Tyr Glu Phe		
210	215	220
Lys Cys Lys Pro Gly Asp Pro Ser Arg Arg Pro Cys Leu Ile Ser Pro		
225	230	235
Tyr His Tyr Arg Leu Asp Trp Leu Met Trp Phe Ala Ala Phe Gln Thr		
245	250	255
Tyr Glu His Asn Asp Trp Ile Ile His Leu Ala Gly Lys Leu Leu Ala		
260	265	270
Ser Asp Ala Glu Ala Leu Ser Leu Leu Ala His Asn Pro Phe Ala Gly		
275	280	285
Arg Pro Pro Pro Arg Trp Val Arg Gly Glu His Tyr Arg Tyr Lys Phe		
290	295	300
Ser Arg Pro Gly Gly Arg His Ala Ala Glu Gly Lys Trp Trp Val Arg		
305	310	315
Lys Arg Ile Gly Ala Tyr Phe Pro Pro Leu Ser Leu Glu Glu Leu Arg		
325	330	335
Pro Tyr Phe Arg Asp Arg Gly Trp Pro Leu Pro Gly Pro Leu		
340	345	350

<210> 3000

<211> 197

<212> PRT

<213> Homo sapiens

<400> 3000

Met Gly Gly Ala Gly Gly Gln His Gly Thr Asp Leu His Pro Ala Leu
 1 5 10 15
 Gln Thr Gly Thr Thr Ala Arg Pro Cys Cys Trp Met Val Ser Ser Val
 20 25 30
 Trp Ala Pro Ser Trp Asn Thr Thr Gln Ser Thr Ala Thr Gly Thr Ala
 35 40 45
 Leu Thr Glu Ala Arg Gly Pro Ala Cys Pro Gly Pro Leu Ser Leu Lys
 50 55 60
 Pro Arg Leu Val Pro Pro Thr Cys Cys Val Met Val Trp Leu Pro Arg
 65 70 75 80
 Pro Ser Leu Gly Trp Val Trp Gly Trp Ser Gly Leu Ala His Ala Ser
 85 90 95
 His Leu Cys Leu His Leu Cys Cys His Pro Ala Pro Pro Ser Ser Ser
 100 105 110
 Ser Pro Thr Ser Ser Ser Leu Cys Ala Ser Val Ser Cys Arg Lys Lys
 115 120 125
 Trp Val Glu Pro Glu Arg Arg Leu Ser Glu Glu Gly Arg Gly Arg Ala
 130 135 140
 Trp Gly Gly Ser Pro Thr Pro His Pro Lys Ser Gln Gly Leu Pro Pro
 145 150 155 160
 Gly Ser Gly Arg Gly Arg Ser Trp Leu Cys Gly Val Val Ala Pro Leu
 165 170 175
 Leu Leu Pro Cys Phe Ser His Leu Ser Cys Pro Ser Leu Val Pro Thr
 180 185 190
 Ala Val His His Glu
 195

<210> 3001

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3001

Met Leu Ser Met Ile Cys Ser Arg Asn Leu Thr Ala Pro Asn Pro Met

1 5 10 15

Lys Asp Ala Gly Asp Met Ile Glu Met Gln Gly Phe Gly Pro Ser Leu

20 25 30

Pro Ala Trp His Leu Glu Pro Leu Cys Ser Gln Gly Ser Ser Cys Leu

35 40 45

Ser Cys Ser Ser Ser Ser Ser Pro His Ala Thr Pro Ser His Cys Ser

50 55 60

Cys Ile Pro Asp Arg Leu Pro Leu Arg Leu Leu Cys Glu Ser Met Lys

65 70 75 80

Arg Gln Ile Val Ser Arg Ala Phe Tyr Gly Trp Leu Ala His Cys Arg

85 90 95

His Leu Ser Thr Val Arg Thr His Leu Ser Ala Leu Val His His Ser

100 105 110

Val Ile Pro Pro Asp Arg Pro Pro Gly Ala Ser Ala Gly Leu Thr Lys

115 120 125

Asp Val Trp Ser Lys Tyr Gln Lys Asp Lys Lys Val Pro Thr Leu Gly

130 135 140

Phe Gln Gly His Arg Ser Arg Gly Trp Gly Gly Gln Glu

145 150 155

<210> 3002

<211> 341

<212> PRT

<213> Homo sapiens

<400> 3002

```

Met Ser Gln His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg
  1             5             10             15
Leu Arg Thr Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser
             20             25             30
Pro Glu Ile Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr
             35             40             45
Pro Asn Tyr Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr
             50             55             60
Phe Thr Asp Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu
             65             70             75             80
Ile Asp Asn Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu
             85             90             95
Pro Gly Ser Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys
             100            105            110
Asn Phe Gln Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp
             115            120            125
Glu Leu Pro Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys
             130            135            140
His Gly Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His
             145            150            155            160
Val Glu Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln
             165            170            175
Val Gly Arg Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val

```

180 185 190
Asn Ala Val Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg
195 200 205
Gly Cys Pro Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn
210 215 220
Ala Glu Gly Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro
225 230 235 240
Thr Ala Pro Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys
245 250 255
Glu Lys Leu Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp
260 265 270
Leu Arg Thr Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala
275 280 285
Leu Glu Asp Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu
290 295 300
Tyr Glu Arg Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro
305 310 315 320
Leu Ala Pro Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu
325 330 335
Leu Pro Val Phe Arg
340

<210> 3003

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3003

Met Glu Val Thr Arg Gln His Pro Arg His Pro Tyr Pro Lys Val Gly
 1 5 10 15
 Ser Arg Ile Pro Ser Thr Arg Lys Cys His Ser Pro Pro Pro Pro Pro
 20 25 30
 Ser Gly Thr Leu Thr Gly Ala Glu Cys Gly Gly Gly Arg Gly Arg Glu
 35 40 45
 Arg Arg Gly Gly Gly Thr Arg His Thr His His Ala Glu Asn Cys Phe
 50 55 60
 Thr Ala Phe Leu Lys Val Phe Lys Met Gln Phe Leu Gln Pro Glu Asn
 65 70 75 80
 Ser His Pro Phe Thr Ser Pro Ser Pro His Pro Ala Pro His Pro His
 85 90 95
 Arg Gly Leu Arg Trp Ala Val Ser Pro Arg Arg Pro Arg Pro His Ala
 100 105 110
 Pro Arg Arg Ala Ala Pro Gly Gly Gly Val Pro Asp Ala Ala Gln Leu
 115 120 125
 Gly Met Leu Arg Thr Cys Met
 130 135

<210> 3004

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3004

Met Gly Ser Ser Met Glu His Met Arg Arg Arg Glu Ser Gly Gly Gly
 1 5 10 15
 Gly Gly Gly Ala Ser Arg Gly Ala Ala Val Gly Trp Arg Lys Pro Gly

	20		25		30										
Gly	Arg	Val	Gln	Cys	Arg	Glu	Ser	Asn	Glu	Glu	Arg	Phe	Glu	Ala	Cys
	35		40		45										
Gln	Gln	Asn	Pro	Met	Leu	Gln	Arg	Gly	Leu	Gly	Met	Gly	Leu	Leu	Arg
	50		55		60										
Ala	Leu	Leu	Thr	Val	Ser	Pro	Ser	Arg	Ala	Ala	Ser	Gly	Asp	Cys	Gly
	65		70		75										80
Asp	Cys	Trp	His	Thr	Ala	Gly	Phe	Ala	Arg	Leu	Lys	Thr	Met	Gly	Gly
			85		90										95
Val	Glu	Asp	Leu	Leu	Thr	His	Leu	Lys	Lys	Ile	Gly	Gly	Lys	Gly	Arg
	100		105		110										
Ile	Glu	Ser	Val	Ser	Asp	Arg	Lys	Arg	Ile	Ile	Cys				
	115		120												

<210> 3005

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3005

Met	Pro	Ala	Asn	Gly	Glu	Thr	Val	Thr	Leu	Pro	Thr	Ser	Pro	Ser	Ile
1			5						10					15	
Pro	Val	Gly	Ile	Ser	Leu	Gly	Leu	Leu	Lys	Arg	Glu	Met	Ala	Gln	Gly
			20						25					30	
Leu	Leu	Pro	Glu	Ala	Lys	Lys	Pro	Arg	Leu	Leu	His	Gly	Thr	Leu	Ile
			35						40					45	
Met	Lys	Asp	Ser	Val	Ser	Ala	Arg	Thr	Val	Ser	Gly	Gly	Gly	Arg	Ala
			50						55					60	

Ala Ala Ala Leu Thr Asp Leu Ser Leu Pro His Arg Thr Ser Gly Trp
 65 70 75 80
 Cys Pro Gln Ser Lys Pro Ser Lys Ser Trp Val Trp Leu Ser Thr Ser
 85 90 95
 Cys Ala Ser Pro Ala Ala Cys Thr Cys Met Thr His Ala Arg Ser Arg
 100 105 110
 Arg Arg His Cys Ala Ser Thr Ala Thr Ser Arg Ala Ser
 115 120 125

<210> 3006

<211> 311

<212> PRT

<213> Homo sapiens

<400> 3006

Met His Asn Ala Glu His Tyr Ser Ser Val Tyr Ala Ser Ser Ser Cys
 1 5 10 15
 Ser Met Asp Ser Leu Ala Ser Ser Leu Asp Glu Gly Asp Thr Thr Ser
 20 25 30
 Leu Leu Lys Leu Gln Arg Tyr Asn Ser Tyr Asp Ile Ser Arg Asp Thr
 35 40 45
 Leu Tyr Val Ser Lys Ser Ile Cys Leu Ile Thr Pro Leu Pro Phe Met
 50 55 60
 Gln Ala Cys Lys Lys Phe Leu Ile Gln Leu Tyr Lys Ala Val Thr Ser
 65 70 75 80
 Gln Gln Pro Pro Pro Leu Pro Leu Glu Ser Tyr Ile His Asn Ile Leu
 85 90 95
 Tyr Glu Val Pro Leu Pro Pro Pro Gly Arg Ser Leu Lys Phe Tyr Gly

100 105 110
Val Tyr Glu Pro Val Ile Cys Gln Arg Pro Gly Pro Ser Glu Leu Pro
115 120 125
Leu Ser Asp Tyr Pro Leu Arg Glu Ala Phe Glu Leu Leu Gly Leu Glu
130 135 140
Asn Leu Val Gln Val Phe Thr Cys Val Leu Leu Glu Met Gln Ile Leu
145 150 155 160
Leu Tyr Ser Gln Asp Tyr Gln Arg Leu Met Thr Val Ala Glu Gly Ile
165 170 175
Thr Thr Leu Leu Phe Pro Phe Gln Trp Gln His Val Tyr Val Pro Ile
180 185 190
Leu Pro Ala Ser Leu Leu His Phe Leu Asp Ala Pro Val Pro Tyr Leu
195 200 205
Met Gly Leu Gln Ser Lys Glu Gly Thr Asp Arg Ser Lys Leu Glu Leu
210 215 220
Pro Gln Gly Ala Asn Leu Cys Phe Val Asp Ile Asp Asn His Phe Ile
225 230 235 240
Glu Leu Pro Glu Glu Phe Pro Gln Phe Pro Asn Lys Val Asp Phe Ile
245 250 255
Gln Glu Leu Ser Glu Val Leu Val Gln Phe Gly Ile Pro Pro Glu Gly
260 265 270
Ser Leu His Cys Ser Glu Ser Thr Ser Lys Leu Lys Asn Met Val Leu
275 280 285
Lys Asp Leu Val Asn Asp Lys Lys Asn Gly Asn Val Cys Thr Asn Asn
290 295 300
Ile Ser Met Tyr Glu Leu Leu
305 310

<210> 3007

<211> 250

<212> PRT

<213> Homo sapiens

<400> 3007

```

Met Gly Gln Gly Thr Gly Lys Leu Pro Pro Pro His Leu Ile Ser Asp
  1             5             10             15
Leu Pro Pro Gln Cys Pro Met Cys Asp Pro Ala Ile Phe Ser Lys Leu
             20             25             30
Asn Ser Val Thr Arg Ala Thr Gly Leu Ala Pro Ser Pro Ser Lys Asp
             35             40             45
Ser Glu Gly Ala Ser Phe Ser His Leu Leu Ile Ile Phe His Phe Ser
             50             55             60
Arg Gln Pro Thr Gln Lys Ala Trp Thr Arg Trp Trp Arg Cys Trp Gly
             65             70             75             80
Ser Tyr Thr Glu Ala Leu Phe Ser Val Cys Ser Leu Pro Gly Gln Ile
             85             90             95
Arg Lys Leu Arg His Arg Lys Val Thr Gln Asp Tyr Arg Gly Gln His
             100            105            110
Arg Glu Gln Trp Asn Leu His Leu Thr Pro Gly Arg Arg Asn Leu His
             115            120            125
Asp His Ser Thr Pro Pro Gln Gly Thr Gly Arg Glu Asn Asn Gly Ser
             130            135            140
Ser Arg Thr Lys Val Thr Phe Pro Arg Val Ser Cys Cys Leu Asp Leu
             145            150            155            160
Ala Ala Val Ser Val Leu Pro Arg Arg Gly Ile Ser Met Ser Ser Gly
             165            170            175
Gln Trp Gln Arg Gly Arg Gly Ala Pro Leu Gln Cys Ala Gly Trp Ser

```


180	185	190
Ala Gly Ser Cys Gln Cys Glu Asp Leu Gln Gln Leu Val Tyr Pro Trp		
195	200	205
Ser Cys His Gln Leu Pro Glu Phe Gly Ala Ala Gly Ala Thr Leu Val		
210	215	220
Val Leu Pro Cys Arg Gly Ser Ser Cys Leu Leu Val Ser Glu Ser Gln		
225	230	235
Leu Trp Gly Cys Asn Leu Lys Pro Lys Ala		
245	250	

<210> 3008

<211> 287

<212> PRT

<213> Homo sapiens

<400> 3008

Met Gly Lys Gly Leu Tyr Trp Ala Cys Trp Gly Ala Val Pro Leu Pro		
1	5	10
Ser Trp Val His His Gly Trp Arg Ala Cys Gly Trp Val Ala Leu Ala		
20	25	30
Gly Ile Leu Arg Ala Cys Arg Leu Pro Ser Ala Leu Gln Pro Ser Pro		
35	40	45
Ala Pro Leu Phe Phe Lys Gly Val Leu Leu Leu Gly Glu Pro Val Arg		
50	55	60
Trp Glu Thr Ser Leu Gln Leu Ile Met Asp Val Leu Leu Ser Asn Gly		
65	70	75
Ser Pro Gly Ala Gly Leu Ala Thr Pro Pro Tyr Pro His Leu Pro Val		
85	90	95

Leu Ala Ser Asn Met Asp Leu Leu Trp Met Ala Glu Ala Lys Met Pro
100 105 110
Arg Phe Gly His Gly Thr Phe Leu Leu Cys Leu Glu Thr Ile Tyr Gln
115 120 125
Lys Val Thr Gly Lys Glu Leu Arg Tyr Glu Gly Leu Met Gly Lys Pro
130 135 140
Ser Ile Leu Thr Tyr Gln Tyr Ala Glu Asp Leu Ile Arg Arg Gln Ala
145 150 155 160
Glu Arg Arg Gly Trp Ala Ala Pro Ile Arg Lys Leu Tyr Ala Val Gly
165 170 175
Asp Asn Pro Met Ser Asp Val Tyr Gly Ala Asn Leu Phe His Gln Tyr
180 185 190
Leu Gln Lys Ala Thr His Asp Gly Ala Pro Glu Leu Gly Ala Gly Gly
195 200 205
Thr Arg Gln Gln Gln Pro Ser Ala Ser Gln Ser Cys Ile Ser Ile Leu
210 215 220
Val Cys Thr Gly Val Tyr Asn Pro Arg Asn Pro Gln Ser Thr Glu Pro
225 230 235 240
Val Leu Gly Gly Gly Glu Pro Pro Phe His Gly His Arg Asp Leu Cys
245 250 255
Phe Ser Pro Gly Leu Met Glu Ala Ser His Val Val Asn Asp Val Asn
260 265 270
Glu Ala Val Gln Leu Val Phe Arg Lys Glu Gly Trp Ala Leu Glu
275 280 285

<210> 3009

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3009

Met His Ser Gln Gly Lys Phe Leu Val Phe Phe Ser Gly Phe Lys Leu
1 5 10 15
Ala Ala Leu Val Ser Cys Leu His Met Cys Val Cys Leu Phe Leu Phe
20 25 30
Ser Phe Cys Ser Phe Ser Phe Leu Val Trp Arg Phe Ser Asn Thr Asn
35 40 45
Lys Cys Arg Glu Asn Ile Ala Met Asn Ser Met Tyr Ser Ser Pro Asp
50 55 60
Phe Ser Asn His Gln Leu Tyr Ala Asn Leu Val Ser Ser Ile Thr Ser
65 70 75 80
Leu Pro Leu Phe Cys Gly Ser Ile Leu Lys Gln Asn Pro Asn Ile Ile
85 90 95
Thr Phe His Leu Gly Val Pro Gln His Phe Pro Leu Thr Asp Glu Asp
100 105 110
Phe Lys Met
115

<210> 3010

<211> 528

<212> PRT

<213> Homo sapiens

<400> 3010

Met Gly Asp Ala Pro Ser Pro Glu Glu Lys Leu His Leu Ile Thr Arg
1 5 10 15

出証特 2 0 0 4 - 3 0 5 9 6 6 0

245	250	255
Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro Leu Lys		
260	265	270
Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys Thr		
275	280	285
Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu Val Val		
290	295	300
His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn Lys Leu		
305	310	315
Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys Lys Leu		
325	330	335
Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met Ala Lys		
340	345	350
Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser Arg Leu		
355	360	365
Asp Ile Arg Val Gly Lys Ile Ile Thr Val Glu Lys His Pro Asp Ala		
370	375	380
Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu Pro Arg		
385	390	395
Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu Leu Gln		
405	410	415
Asp Arg Leu Val Val Val Leu Cys Asn Leu Lys Pro Gln Lys Met Arg		
420	425	430
Gly Val Glu Ser Gln Gly Met Leu Leu Cys Ala Ser Ile Glu Gly Ile		
435	440	445
Asn Arg Gln Val Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala Pro Gly		
450	455	460
Glu His Val Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp Glu Glu		
465	470	475
		480

Leu Lys Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp Phe Lys

485

490

495

Ile Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr

500

505

510

Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile Ser

515

520

525

<210> 3011

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3011

Met Pro Leu Thr Gly Thr Asn His Asp Arg Gln Gly His Leu Leu Arg

1

5

10

15

Ser Gly Thr Thr Tyr Tyr Leu Leu Ala Met Gly Ala Asn Phe Thr Val

20

25

30

Phe Leu Gln Tyr Leu Val Phe Pro Ile Phe Gly Phe Leu Leu Ile Ile

35

40

45

Ser His Pro Ser Gln Pro Leu Phe Ser Ser Pro Pro Leu Cys Leu Gln

50

55

60

His Pro Ile Leu Pro Ser Leu Pro Phe Asn Leu Pro Ile Leu Phe Phe

65

70

75

80

Pro Leu Lys Ser His Met Ile Leu Gln Ser Ser Phe Val Phe Pro Lys

85

90

95

Lys Lys Lys Asn Phe Phe Phe Phe Lys Glu Pro Phe Leu Asp Ser

100

105

110

<210> 3012

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3012

Met Trp Gly Arg Ser Ser Gly Glu Gly Gln Ser Leu Leu Pro Val Glu

1

5

10

15

Arg Lys Trp Ala Leu Glu Lys Leu His Glu Ser Ser Pro Ala Glu Gly

20

25

30

Pro Glu Val His Ile Ser Gly Ala Arg Val Gly Leu Met Val Thr Leu

35

40

45

Ala Gly Asp Ala Lys Ser Thr Gly Val Arg Pro Gly Gln Val Leu Val

50

55

60

Cys Glu Trp Ala Ser Phe Ser Arg Leu Ala His Arg Lys Arg Val Ala

65

70

75

80

Trp Leu Ala Phe Pro Leu Lys Leu Arg Thr Glu Ala Gln Asp Met Ser

85

90

95

His Thr Ile Asp Met Ser Trp Gly Gln Met Gly Gly Arg Cys Ala Gln

100

105

110

Ser Gly Cys Ile Asp Thr

115

<210> 3013

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3013

Met Gly Gly Pro Gly Gln Arg Gly Thr Gln Gln Arg Cys Pro Pro Ser
 1 5 10 15
 Ser Leu Ser Ser Leu Ala Gly Ile Thr Gly Pro Ser Ala Glu Pro Thr
 20 25 30
 Pro Arg Thr Cys Ser Gly Cys Ala Lys Arg Pro Ala Thr Trp Cys Ala
 35 40 45
 Thr Val Arg Pro Ala Arg Met Thr Ser Pro Ser Pro Ser Ser Glu Trp
 50 55 60
 Gly Gln Leu Trp Phe Gln Gly Gln Gln Ala Gly Trp Lys Gly Thr Pro
 65 70 75 80
 Val Phe Pro Leu Cys Pro Thr Lys Leu Gly Arg Ser Pro Ser Pro Met
 85 90 95
 Asn Asn Pro Gln Ala Leu Gly Val Leu Arg Cys Leu Arg Leu Ser Pro
 100 105 110
 Cys Ser Gln Gly Ala Gln Ser Pro Leu Gly Glu Ile Val Asp Pro Gln
 115 120 125
 His Pro Ala Gln Lys Gly Ser Val Leu Val Val Trp Pro Gly Pro Leu
 130 135 140
 Asn Leu Ser Arg Pro Gln Phe Pro Tyr
 145 150

<210> 3014

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3014

Met Lys Phe Ser Ser Cys Leu Asn Arg Gly Ala Lys Pro Asp Glu Ile
 1 5 10 15
 Asn Gly Arg Lys Lys Met Pro Ala Ile Leu Phe Gln Glu Arg His Gly
 20 25 30
 Leu Lys Gly Glu Arg Thr Thr Val Thr Arg Gly Arg Phe Arg Pro His
 35 40 45
 Arg Ala Ala Arg Ala Gly Lys Leu Cys Arg Gly Arg Phe Arg Gly Gln
 50 55 60
 Ser Gln Gly Gly Gly Pro Arg His Arg Arg Val Phe Gln Ala Gly Pro
 65 70 75 80
 Gly Pro Gly Gln Arg Gly Ile Thr Arg Pro Val Leu Cys Ser Gln Asp
 85 90 95
 Glu Gly Arg Gly Gln Thr Phe Ser Pro Arg Pro Ser Arg Gln Gly Trp
 100 105 110
 Ala Val Pro Val Gly Ala Trp Glu Arg Arg Arg Arg Ala His Phe Gln
 115 120 125
 His Gln Val Arg Glu Gly His Asp Ala Gln Pro Leu Glu Pro Leu Ala
 130 135 140
 Cys Val Pro His Pro Asp Phe Leu Ala Ser Gly Glu Arg Pro Leu Arg
 145 150 155 160
 Arg Val Gly Val Ala Arg Gly Ser Ala Glu Glu Ser Trp Gly Gln Arg
 165 170 175
 Ala Trp Trp Arg Gly Pro Ala Arg Arg Val Pro Gly Ala Arg Gly Arg
 180 185 190
 Pro Gln Asn Pro Gly Arg Val Glu Ala Pro Gly His Ala Pro Gly Trp
 195 200 205
 Trp Ala Ala Arg Asp Gly Ser Gly Asp Pro Ser Pro Glu Glu Gly Arg
 210 215 220

Gly Leu His Arg Gly Gln Ala Glu Ala Pro Arg Val Pro Cys Gly Phe
 225 230 235 240
 Arg Pro Ser Pro Leu Ala Pro Thr Pro Arg Ser Gly Arg Asp Ser Ser
 245 250 255
 Pro Gly Ser Ala Gly Gln Ala Gln Val Cys Ala Leu Arg Leu Gln Pro
 260 265 270
 Arg Gln Lys Ser Val Pro Arg Arg Gly Arg Arg Val Arg Val Pro Arg
 275 280 285
 Met Arg Val Gly Leu Pro Pro Ala Gly Thr Ala Glu Leu Arg Arg Gly
 290 295 300
 Ser Arg Cys Ser Arg Ser Ala Ser Gly Arg Gly Arg Leu Ser Ala Leu
 305 310 315 320
 Gly Gly Glu Ala Gly Gly Pro Leu Gly
 325

<210> 3015

<211> 169

<212> PRT

<213> Homo sapiens

<400> 3015

Met Gly Ser Ser Lys Gly Leu Trp Lys Glu Lys Pro Ser Ala His Thr
 1 5 10 15
 Ser Glu Cys Phe Ser Thr Thr Ala Cys Pro Val Ala Cys Ile Leu Leu
 20 25 30
 Val Trp Asn Ser Gln Thr Pro Ala Gly Leu Gln Ser Leu Cys Thr Gly
 35 40 45
 Arg His Pro Ser Leu Ser Ala Arg Ala Gln Trp Ala Gly Pro Arg Ala

50 55 60
 Ser Arg Glu Glu Gly Thr Phe Trp Thr Glu Pro Val Gly Gln Glu Arg
 65 70 75 80
 Arg Leu Ile Arg Ser Gly Ser Ser Gln Asn Glu Ser Gln Glu Asp Gln
 85 90 95
 Gly Ala Asp Leu Ile Ser His Glu Gly Leu Lys Ala Asp Asn Arg Arg
 100 105 110
 Glu Ser Ser Thr Trp Ala Asn Glu Val Glu Asp Arg Arg Pro Gln Cys
 115 120 125
 Thr Ser Ala Leu Asn Leu Thr Pro Ser His Leu His Pro Pro His Pro
 130 135 140
 Leu Thr Thr Phe Phe Arg Asn Val Ile Gly Ile Lys Ile Pro Pro Gly
 145 150 155 160
 Leu Val Ala Met Gly Gly Thr Val Ala
 165

<210> 3016

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3016

Met Arg Gly Ala Ala Gly Ala Ala Gly Ala Ser Ser Arg Glu Asp Gly
 1 5 10 15
 Cys Arg Val Pro Arg Pro Pro Pro Thr Pro Gly Gly Val Pro Ser Ser
 20 25 30
 Gln Leu Arg Pro Glu Arg Leu Leu Pro Gly Glu Ser Pro Pro Leu Cys
 35 40 45

Asn Gln Pro Ala Ala Ala Glu Gly Ala Trp Val Pro Ser Ala Glu Pro
 50 55 60
 Ala Ala His Gly Arg Arg Arg Thr Val Pro Trp Trp Arg Ser Ala Pro
 65 70 75 80
 Ala Thr Arg Leu Ala Thr Pro Gly Arg Gly Pro Gly Gly Arg Gly Trp
 85 90 95
 Asp Leu Gly Ala Leu Arg Val Gly Pro Trp Gly Met Arg Leu Gly Pro
 100 105 110
 Ala Gly Asn Arg Ala Gly Ala Arg Arg Leu Ala Gly Leu Pro Ala Thr
 115 120 125
 Glu Cys Phe Asp Ala Phe Phe Asn Ser Ala Asn Val Ser Leu Ser Thr
 130 135 140
 Leu Ser Pro Ser Ser Ala Gln Arg Thr Val Leu
 145 150 155

<210> 3017

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3017

Met Lys Val Thr Gly Thr Pro Pro Ala Glu Phe Val Gln Arg Leu Gln
 1 5 10 15
 Ser Asp Glu Ala Lys Asn Tyr Met Lys Gly Leu Pro Glu Leu Glu Lys
 20 25 30
 Lys Asp Phe Ala Ser Ile Leu Thr Asn Ala Ser Pro Leu Ala Val Asn
 35 40 45
 Leu Leu Glu Lys Met Leu Val Leu Asp Ala Glu Gln Arg Val Thr Ala

50 55 60
Gly Glu Ala Leu Ala His Pro Tyr Phe Glu Ser Leu His Asp Thr Glu
65 70 75 80
Asp Glu Pro Gln Val Gln Lys Tyr Asp Asp Ser Phe Asp Asp Val Asp
85 90 95
Arg Thr Leu Asp Glu Trp Lys Arg Glu Trp Gly Ala Pro Gly Thr Ala
100 105 110
Cys Val Asp Pro Ser Gly Gly Leu Trp Ala Gly Pro Val Trp Thr Arg
115 120 125
Glu Leu Gly Ala Leu Gly Arg Ala Cys Val Asn Pro
130 135 140

<210> 3018

<211> 276

<212> PRT

<213> Homo sapiens

<400> 3018

Met Leu Ala Arg Arg Asp Leu Gly Leu Val Pro His Gly Val Ser Gly
1 5 10 15
Val Ser Ile Ala Ala Ser Ser Thr Pro Gln Gly Gln Ala Val Cys Ser
20 25 30
Pro Ser Val Ala Ala Pro Ser Thr Leu Leu Leu Leu Arg Thr His Leu
35 40 45
Leu Gly Ala Ala Ser Leu Gln Gly Cys Gly Val Leu His Ile Leu Pro
50 55 60
Ile Phe Leu Phe Ser Lys Gly Cys Arg Arg Asp Ala Gln Cys Ala Cys
65 70 75 80

Thr Val Gly Pro Ser Ala Ser Pro Arg Ser Gly Arg Gly Pro Gly Arg
 85 90 95
 Gly Gly Gly Arg Arg Pro Arg Leu Gly Ala Ala Arg Ser Gly Cys Pro
 100 105 110
 Gly Ala Ala Ala Ala Gly Gly Pro Ala Val Leu His Pro Trp Arg Arg
 115 120 125
 Ala Gly Gly Arg Val Arg Gly Ala Ser Pro Pro Gln Gly Pro Gln Thr
 130 135 140
 Ala Arg Gly Phe Pro Leu Pro Ser Arg Trp Ser Ser Ser Pro Ile Pro
 145 150 155 160
 Gly Cys Ile Ser Ile Tyr Pro Ser Pro Ile Ser Phe Ala His Pro Gly
 165 170 175
 Ser Leu Ala Pro Leu Gly Ser Pro Phe Pro Ser Pro Gly Pro Pro Ser
 180 185 190
 Arg Ser Arg Leu Leu Cys Pro Gly Leu Arg Arg Gly Leu Thr Pro Gly
 195 200 205
 Arg Trp Phe Arg Pro Asp Leu Gly Ser Leu Val Thr Pro Arg Leu Leu
 210 215 220
 Pro Leu Pro Asn Ser Gly Glu Pro Gly Ile Lys Pro Cys Ala Phe Leu
 225 230 235 240
 Phe Phe Leu Leu Arg Ala Glu Ser Thr Leu His Val Cys Gln Gly Ile
 245 250 255
 Ser Ser Glu Ser Glu Arg Arg Thr Arg Ser Phe Phe Phe Phe Pro Arg
 260 265 270
 Ser Cys Leu Leu
 275

<210> 3019

<211> 520

<212> PRT

<213> Homo sapiens

<400> 3019

Met Ser Pro Pro Lys Asp Pro Ser Pro Ser Leu Pro Leu Pro Ser Ser

1 5 10 15

Ser Ser His Ser Ser Ser Pro Pro Ser Ser Ser Ser Thr Ser Val Ser

20 25 30

Gly Asn Ala Pro Asp Gly Ser Ser Pro Pro Gln Met Thr Ala Ser Glu

35 40 45

Pro Leu Ser Gln Val Ser Arg Gly His Pro Ser Pro Pro Thr Pro Asn

50 55 60

Phe Arg Arg Arg Ala Ile Ala Gln Gly Ala Pro Arg Glu Ile Pro Leu

65 70 75 80

Tyr Leu Pro His His Pro Lys Pro Glu Trp Ala Glu Tyr Cys Leu Val

85 90 95

Ser Pro Gly Glu Asp Gly Leu Ser Asp Pro Ala Glu Met Thr Ser Asp

100 105 110

Glu Cys Gln Pro Ala Glu Ala Pro Leu Gly Asp Ile Gly Ser Asn His

115 120 125

Arg Asp Pro His Pro Ile Trp Gly Lys Asp Arg Ser Trp Thr Gly Gln

130 135 140

Glu Leu Ser Pro Leu Ala Gly Glu Asp Arg Glu Lys Gly Ser Thr Gly

145 150 155 160

Ala Arg Lys Glu Glu Glu Gly Gly Pro Val Leu Val Lys Glu Lys Leu

165 170 175

Gly Leu Lys Lys Leu Val Leu Thr Gln Glu Gln Lys Thr Met Leu Leu

180 185 190

Asp Trp Asn Asp Ser Ile Pro Glu Ser Val His Leu Lys Ala Gly Glu
195 200 205
Arg Ile Ser Gln Lys Ser Ala Glu Asn Gly Arg Gly Gly Arg Val Leu
210 215 220
Lys Pro Val Arg Pro Leu Leu Leu Pro Arg Ala Ala Gly Glu Pro Leu
225 230 235 240
Pro Thr Gln Arg Gly Ala Gln Glu Lys Met Gly Thr Pro Ala Glu Gln
245 250 255
Ala Gln Gly Glu Arg Asn Val Pro Pro Pro Lys Ser Pro Leu Arg Leu
260 265 270
Ile Ala Asn Ala Ile Arg Arg Ser Leu Glu Pro Leu Leu Ser Asn Ser
275 280 285
Glu Gly Gly Lys Lys Ala Trp Ala Lys Gln Glu Ser Lys Thr Leu Pro
290 295 300
Thr Gln Ala Cys Thr Arg Ser Phe Gly Leu Arg Lys Thr Asn Ser Asn
305 310 315 320
Lys Asp Gly Asp Gln His Ser Pro Gly Arg Asn Gln Ser Ser Ala Phe
325 330 335
Ser Pro Pro Asp Pro Ala Leu Arg Thr His Ser Leu Pro Asn Arg Pro
340 345 350
Ser Lys Val Phe Pro Ala Leu Arg Ser Pro Pro Cys Ser Lys Ile Glu
355 360 365
Asp Val Pro Thr Leu Leu Glu Lys Val Ser Leu Gln Glu Asn Phe Pro
370 375 380
Asp Ala Ser Lys Pro Pro Lys Lys Arg Ile Ser Leu Phe Ser Ser Leu
385 390 395 400
Arg Leu Lys Asp Lys Ser Phe Glu Ser Phe Leu Gln Glu Ser Arg Gln
405 410 415
Arg Lys Asp Ile Arg Asp Leu Phe Gly Ser Pro Lys Arg Lys Val Leu

420 425 430
 Pro Glu Asp Ser Ala Gln Ala Leu Glu Lys Leu Leu Gln Pro Phe Lys
 435 440 445
 Ser Thr Ser Leu Arg Gln Ala Ala Pro Pro Pro Pro Pro Pro Pro Pro
 450 455 460
 Pro Pro Pro Pro Pro Pro Pro Thr Ala Gly Gly Ala Asp Ser Lys Asn
 465 470 475 480
 Phe Pro Leu Arg Ala Gln Val Thr Glu Ala Ser Ser Ser Ala Ser Ser
 485 490 495
 Thr Ser Ser Ser Ser Ala Asp Glu Glu Phe Asp Pro Gln Leu Ser Leu
 500 505 510
 Gln Leu Lys Glu Lys Lys Thr Leu
 515 520

<210> 3020

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3020

Met Gly Pro Glu Gly Ala Leu Cys Val Tyr Val Gly Gly Gly Gly Ala
 1 5 10 15
 Val Leu Ala Ala Ser Val Leu Cys Val Thr Leu Pro Ser Lys Gly Pro
 20 25 30
 Val Leu Ser Val Pro Arg Glu Pro Gln Pro Lys Leu Arg Arg Glu Gly
 35 40 45
 Gly Glu Gly Cys Gly Met Ala Val Gly His Ser Val Ala Asp Cys Ser
 50 55 60

Val Ser Ala Gly Ser Phe Leu Gly Thr Trp Lys Ala Ser Val Ala Ser
65 70 75 80
Pro Ser Leu Pro Phe Thr Ala Gly Ser Leu Ser Ala Ser Pro Met Pro
85 90 95
Tyr Ala Trp Ala His Cys His Arg Ile Cys Asn Met Cys Gly
100 105 110

<210> 3021

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3021

Met Leu Glu Phe Gln Glu Leu Met Thr Val Phe Gln Leu Leu His Trp
1 5 10 15
Asn Gly Ser Leu Lys Ala Met Arg Glu Arg Gln Cys Ser Arg Gln Glu
20 25 30
Val Leu Ala His Tyr Ser His Arg Ala Leu Asp Asp Asp Ile Arg His
35 40 45
Gln Met Ala Leu Asp Trp Val Ser Arg Glu Gln Ser Val Pro Gly Ala
50 55 60
Leu Ser Arg Glu Leu Ala Ser Thr Glu Arg Glu Leu Asp Glu Ala Arg
65 70 75 80
Leu Ala Gly Lys Glu Leu Arg Phe His Lys Glu Lys Lys Asp Ile Leu
85 90 95
Val Leu Ala Ala Gly Gln Leu Gly Asn Met His Ser Ser Asn Cys
100 105 110

<210> 3022

<211> 723

<212> PRT

<213> Homo sapiens

<400> 3022

Met Ala Glu Glu Glu Gly Pro Pro Val Glu Leu Arg Gln Arg Lys Lys

1 5 10 15

Pro Lys Ser Ser Glu Asn Lys Glu Ser Ala Lys Glu Glu Lys Ile Ser

20 25 30

Asp Ile Pro Ile Pro Glu Arg Ala Pro Lys His Val Leu Phe Gln Arg

35 40 45

Phe Ala Lys Ile Phe Ile Gly Cys Leu Ala Ala Val Thr Ser Gly Met

50 55 60

Met Tyr Ala Leu Tyr Leu Ser Ala Tyr His Glu Arg Lys Phe Trp Phe

65 70 75 80

Ser Asn Arg Gln Glu Leu Glu Arg Glu Ile Thr Phe Gln Gly Asp Ser

85 90 95

Ala Ile Tyr Tyr Ser Tyr Tyr Lys Asp Met Leu Lys Ala Pro Ser Phe

100 105 110

Glu Arg Gly Val Tyr Glu Leu Thr His Asn Asn Lys Thr Val Ser Leu

115 120 125

Lys Thr Ile Asn Ala Val Gln Gln Met Ser Leu Tyr Pro Glu Leu Ile

130 135 140

Ala Ser Ile Leu Tyr Gln Ala Thr Gly Ser Asn Glu Ile Ile Glu Pro

145 150 155 160

Val Tyr Phe Tyr Ile Gly Ile Val Phe Gly Leu Gln Gly Ile Tyr Val

165 170 175

Thr Ala Leu Phe Val Thr Ser Trp Leu Met Ser Gly Thr Trp Leu Ala
180 185 190
Gly Met Leu Thr Val Ala Trp Phe Val Ile Asn Arg Val Asp Thr Thr
195 200 205
Arg Ile Glu Tyr Ser Ile Pro Leu Arg Glu Asn Trp Ala Leu Pro Tyr
210 215 220
Phe Ala Cys Gln Ile Ala Ala Leu Thr Gly Tyr Leu Lys Ser Asn Leu
225 230 235 240
Asn Thr Tyr Gly Glu Arg Phe Cys Tyr Leu Leu Met Ser Ala Ser Thr
245 250 255
Tyr Thr Phe Met Met Met Trp Glu Tyr Ser His Tyr Leu Leu Phe Leu
260 265 270
Gln Ala Ile Ser Leu Phe Leu Leu Asp Thr Phe Ser Val Glu Gln Ser
275 280 285
Asp Lys Val Tyr Glu Val Tyr Lys Ile Tyr Ile Phe Ser Leu Phe Leu
290 295 300
Gly Tyr Leu Leu Gln Phe Glu Asn Pro Ala Leu Leu Val Ser Pro Leu
305 310 315 320
Leu Ser Leu Val Ala Ala Leu Met Leu Ala Lys Cys Leu Gln Leu Asn
325 330 335
Val Lys Lys Gly Ser Phe Val Ala Lys Ile Ile Lys Val Ile Asn Phe
340 345 350
Tyr Leu Val Cys Thr Leu Thr Ile Thr Leu Asn Ile Ile Met Lys Met
355 360 365
Phe Val Pro His Lys Glu Asn Gly His Met Leu Lys Phe Leu Glu Val
370 375 380
Lys Phe Gly Leu Asn Met Thr Lys Asn Phe Thr Met Asn Trp Leu Leu
385 390 395 400
Cys Gln Glu Ser Leu Gln Ala Pro Ser Gln Asp Phe Phe Leu Arg Leu

405	410	415
Thr Gln Ser Ser Leu Leu Pro Phe Tyr Ile Leu Val Leu Ile Ile Cys		
420	425	430
Phe Leu Ser Met Leu Gln Val Ile Phe Arg Arg Ile Asn Gly Lys Ser		
435	440	445
Leu Lys Glu Thr Val Thr Leu Glu Asp Gly Arg Ile Gly Glu Arg Pro		
450	455	460
Glu Ile Ile Tyr His Val Ile His Thr Ile Leu Leu Gly Ser Leu Ala		
465	470	475
Met Val Ile Glu Gly Leu Lys Tyr Ile Trp Ile Pro Tyr Val Cys Met		
485	490	495
Leu Ala Ala Phe Gly Val Cys Ser Pro Glu Leu Trp Met Thr Leu Phe		
500	505	510
Lys Trp Leu Arg Leu Arg Thr Val His Pro Ile Leu Leu Ala Leu Ile		
515	520	525
Leu Ser Met Ala Val Pro Thr Ile Ile Gly Leu Ser Leu Trp Lys Glu		
530	535	540
Phe Phe Pro Arg Leu Met Thr Glu Leu Met Glu Leu Gln Glu Phe Tyr		
545	550	555
Asp Pro Asp Thr Val Glu Leu Met Thr Trp Ile Lys Arg Gln Ala Pro		
565	570	575
Val Ala Ala Val Phe Ala Gly Ser Pro Gln Leu Met Gly Ala Ile Lys		
580	585	590
Leu Cys Thr Gly Trp Met Val Thr Ser Leu Pro Leu Tyr Asn Asp Asp		
595	600	605
Asp Leu Leu Lys Arg Asn Glu Asn Ile Tyr Gln Ile Tyr Ser Lys Arg		
610	615	620
Ser Ala Glu Asp Ile Tyr Lys Ile Leu Thr Ser Tyr Lys Ala Asn Tyr		
625	630	635
		640

Leu Ile Val Glu Asp Ala Ile Cys Asn Glu Val Gly Pro Thr Arg Gly
 645 650 655
 Cys Arg Val Lys Asp Leu Leu Asp Ile Ala Asn Gly His Met Val Cys
 660 665 670
 Glu Glu Gly Asp Lys Leu Thr Tyr Ser Lys Tyr Gly Arg Phe Cys His
 675 680 685
 Glu Val Lys Ile Asn Tyr Ser Pro Tyr Val Asn Tyr Phe Thr Arg Val
 690 695 700
 Tyr Trp Asn Arg Ser Tyr Phe Val Tyr Lys Ile Asn Thr Val Ile Ser
 705 710 715 720
 Phe Gln Ser

<210> 3023

<211> 164

<212> PRT

<213> Homo sapiens

<400> 3023

Met Gly Val Ser Val Asp Val His Gln Val Tyr Lys Tyr Pro Phe Glu
 1 5 10 15
 Gln Val Val Ala Ser Phe Leu Arg Lys Tyr Pro Asn Pro Met Asp Lys
 20 25 30
 Asn Val Ile Ser Val Lys Ile Met Glu Glu Lys Arg Asp Glu Ser Thr
 35 40 45
 Gly Val Ile Tyr Arg Lys Arg Ile Ala Ile Cys Gln Asn Val Val Pro
 50 55 60
 Glu Ile Leu Arg Lys Val Ser Ile Leu Lys Val Pro Asn Ile Gln Leu

65 70 75 80
 Glu Glu Glu Ser Trp Leu Asn Pro Arg Glu Arg Asn Met Ala Ile Arg
 85 90 95
 Ser His Cys Leu Thr Trp Thr Gln Tyr Ala Ser Met Lys Glu Glu Ser
 100 105 110
 Val Phe Arg Glu Ser Met Glu Asn Pro Asn Trp Thr Glu Phe Ile Gln
 115 120 125
 Arg Gly Arg Ile Ser Ile Thr Gly Val Gly Phe Leu Asn Cys Val Leu
 130 135 140
 Glu Thr Phe Ala Ser Thr Phe Leu Arg Gln Gly Ala Gln Lys Val Thr
 145 150 155 160
 Ile Phe Leu Leu

<210> 3024

<211> 735

<212> PRT

<213> Homo sapiens

<400> 3024

Met Ala Glu Pro Leu Leu Arg Lys Thr Phe Ser Arg Leu Arg Gly Arg
 1 5 10 15
 Glu Lys Leu Pro Arg Lys Lys Ser Asp Ala Lys Glu Arg Gly His Pro
 20 25 30
 Ala Gln Arg Pro Glu Pro Ser Pro Pro Glu Pro Glu Pro Gln Ala Pro
 35 40 45
 Glu Gly Ser Gln Ala Gly Ala Glu Gly Pro Ser Ser Pro Glu Ala Ser
 50 55 60

Arg Ser Pro Ala Arg Gly Ala Tyr Leu Gln Ser Leu Glu Pro Ser Ser
65 70 75 80
Arg Arg Trp Val Leu Gly Gly Ala Lys Pro Ala Glu Asp Thr Ser Leu
85 90 95
Gly Pro Gly Val Pro Gly Thr Gly Glu Pro Ala Gly Glu Ile Trp Tyr
100 105 110
Asn Pro Ile Pro Glu Glu Asp Pro Arg Pro Pro Ala Pro Glu Pro Pro
115 120 125
Gly Pro Gln Pro Gly Ser Ala Glu Ser Glu Gly Leu Ala Pro Gln Gly
130 135 140
Ala Ala Pro Ala Ser Pro Pro Thr Lys Ala Ser Arg Thr Lys Ser Pro
145 150 155 160
Gly Pro Ala Arg Arg Leu Ser Ile Lys Met Lys Lys Leu Pro Glu Leu
165 170 175
Arg Arg Arg Leu Ser Leu Arg Gly Pro Arg Ala Gly Arg Glu Arg Glu
180 185 190
Arg Ala Ala Pro Ala Gly Ser Val Ile Ser Arg Tyr His Leu Asp Ser
195 200 205
Ser Val Gly Gly Pro Gly Pro Ala Ala Gly Pro Gly Gly Thr Arg Ser
210 215 220
Pro Arg Ala Gly Tyr Leu Ser Asp Gly Asp Ser Pro Glu Arg Pro Ala
225 230 235 240
Gly Pro Pro Ser Pro Thr Ser Phe Arg Pro Tyr Glu Val Gly Pro Ala
245 250 255
Ala Arg Ala Pro Pro Ala Ala Leu Trp Gly Arg Leu Ser Leu His Leu
260 265 270
Tyr Gly Leu Gly Gly Leu Arg Pro Ala Pro Gly Ala Thr Pro Arg Asp
275 280 285
Leu Cys Cys Leu Leu Gln Val Asp Gly Glu Ala Arg Ala Arg Thr Gly

290	295	300
Pro Leu Arg Gly Gly Pro Asp Phe Leu Arg Leu Asp His Thr Phe His		
305	310	315
Leu Glu Leu Glu Ala Ala Arg Leu Leu Arg Ala Leu Val Leu Ala Trp		
325	330	335
Asp Pro Gly Val Arg Arg His Arg Pro Cys Ala Gln Gly Thr Val Leu		
340	345	350
Leu Pro Thr Val Phe Arg Gly Cys Gln Ala Gln Gln Leu Ala Val Arg		
355	360	365
Leu Glu Pro Gln Gly Leu Leu Tyr Ala Lys Leu Thr Leu Ser Glu Gln		
370	375	380
Gln Glu Ala Pro Ala Thr Ala Glu Pro Arg Val Phe Gly Leu Pro Leu		
385	390	395
Pro Leu Leu Val Glu Arg Glu Arg Pro Pro Gly Gln Val Pro Leu Ile		
405	410	415
Ile Gln Lys Cys Val Gly Gln Ile Glu Arg Arg Gly Leu Arg Val Val		
420	425	430
Gly Leu Tyr Arg Leu Cys Gly Ser Ala Ala Val Lys Lys Glu Leu Arg		
435	440	445
Asp Ala Phe Glu Arg Asp Ser Ala Ala Val Cys Leu Ser Glu Asp Leu		
450	455	460
Tyr Pro Asp Ile Asn Val Ile Thr Gly Ile Leu Lys Asp Tyr Leu Arg		
465	470	475
Glu Leu Pro Thr Pro Leu Ile Thr Gln Pro Leu Tyr Lys Val Val Leu		
485	490	495
Glu Ala Met Ala Arg Asp Pro Pro Asn Arg Val Pro Pro Thr Thr Glu		
500	505	510
Gly Thr Arg Gly Leu Leu Ser Cys Leu Pro Asp Val Glu Arg Ala Thr		
515	520	525

Leu Thr Leu Leu Leu Asp His Leu Arg Leu Val Ser Ser Phe His Ala
530 535 540

Tyr Asn Arg Met Thr Pro Gln Asn Leu Ala Val Cys Phe Gly Pro Val
545 550 555 560

Leu Leu Pro Ala Arg Gln Ala Pro Thr Arg Pro Arg Ala Arg Ser Ser
565 570 575

Gly Pro Gly Leu Ala Ser Ala Val Asp Phe Lys His His Ile Glu Val
580 585 590

Leu His Tyr Leu Leu Gln Ser Trp Pro Asp Pro Arg Leu Pro Arg Gln
595 600 605

Ser Pro Asp Val Ala Pro Tyr Leu Arg Pro Lys Arg Gln Pro Pro Leu
610 615 620

His Leu Pro Leu Ala Asp Pro Glu Val Val Thr Arg Pro Arg Gly Arg
625 630 635 640

Gly Gly Pro Glu Ser Pro Pro Ser Asn Arg Tyr Ala Gly Asp Trp Ser
645 650 655

Val Cys Gly Arg Asp Phe Leu Pro Cys Gly Arg Asp Phe Leu Ser Gly
660 665 670

Pro Asp Tyr Asp His Val Thr Gly Ser Asp Ser Glu Asp Glu Asp Glu
675 680 685

Glu Val Gly Glu Pro Arg Val Thr Gly Asp Phe Glu Asp Asp Phe Asp
690 695 700

Ala Pro Phe Asn Pro His Leu Asn Leu Lys Asp Phe Asp Ala Leu Ile
705 710 715 720

Leu Asp Leu Glu Arg Glu Leu Ser Lys Gln Ile Asn Val Cys Leu
725 730 735

<210> 3025

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3025

Met Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Ser

1 5 10 15

Leu His Leu Leu Gly Ser Ser Ser Pro Pro Thr Ser Thr Ser Leu Arg

20 25 30

Ala Glu Thr Thr Gly Val Ser His His Ala Trp Leu Ile Phe Arg Asp

35 40 45

Arg Val Ser Pro Ser Cys Pro Gly Trp Ser Gln Thr Pro Gly Leu Lys

50 55 60

Gln Ser Ser Cys Leu Ser Leu Pro Glu Tyr Trp Asp Tyr Arg Cys Glu

65 70 75 80

Pro Leu Pro Glu Lys Arg Phe Leu Arg Gln Gly Arg Ser Tyr Ile Ile

85 90 95

Phe Lys Phe Phe Leu Met Met Ser Phe Leu Ala Val His Ser Gln Arg

100 105 110

Thr Thr His His Thr Gln Glu Thr Val Val Leu Met

115 120

<210> 3026

<211> 276

<212> PRT

<213> Homo sapiens

<400> 3026

Met Ser Phe Glu Gly Gly Asp Gly Ala Gly Pro Ala Met Leu Ala Thr
 1 5 10 15
 Gly Thr Ala Arg Met Ala Ser Gly Arg Pro Glu Glu Leu Trp Glu Ala
 20 25 30
 Val Val Gly Ala Ala Glu Arg Phe Arg Ala Arg Thr Gly Thr Glu Leu
 35 40 45
 Val Leu Leu Thr Ala Ala Pro Pro Pro Pro Pro Arg Pro Gly Pro Cys
 50 55 60
 Ala Tyr Ala Ala His Gly Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg
 65 70 75 80
 Cys Leu His Asp Ile Ala Leu Ala His Arg Ala Ala Thr Ala Ala Arg
 85 90 95
 Pro Pro Ala Pro Pro Pro Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser
 100 105 110
 Pro Pro Arg Pro Thr Leu Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp
 115 120 125
 Glu Pro Thr Glu Thr Glu Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp
 130 135 140
 Asn Gly Gly Leu Phe Val Met Asp Glu Asp Ala Thr Leu Gln Asp Leu
 145 150 155 160
 Pro Pro Phe Cys Glu Ser Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu
 165 170 175
 Ser Glu Glu Thr Pro Ala Gly Pro Pro Thr Cys Ser Val Pro Pro Ala
 180 185 190
 Ser Ala Leu Pro Thr Gln Gln Tyr Ala Lys Ser Leu Pro Val Ser Val
 195 200 205
 Pro Val Trp Gly Phe Lys Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp
 210 215 220
 Glu Glu Asn Gly Pro Pro Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala

225 230 235 240
 Ser Met Arg Ala Leu Val Leu Arg Glu Ala Glu Asp Thr Gln Val Phe
 245 250 255
 Gly Asp Leu Pro Arg Pro Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu
 260 265 270
 Lys Arg Lys Tyr
 275

<210> 3027

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3027

Met Lys Asn Ala Leu Gln Ala Trp Ser Ile Ile Thr Tyr Gly Ile Ser
 1 5 10 15
 Cys Phe Lys Ile Ser Ser Asp Ile Tyr Leu Val Lys Phe His Phe Arg
 20 25 30
 Arg Leu Arg Cys Arg Thr Leu Met Phe Ile Thr Ser Ser Tyr Pro Lys
 35 40 45
 Arg Asn Gly Phe Arg His Val Leu Ser Gln Gln Glu Ile Asp Phe Phe
 50 55 60
 Leu Asn Tyr Leu Ile Leu Leu Pro Asn Ile Thr Glu Val Met Arg Ser
 65 70 75 80
 Leu Val Thr Phe Gly Cys Cys Ala Leu Lys Glu Pro Gly Leu Glu Phe
 85 90 95
 Val Gly Val Ile
 100

<210> 3028

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3028

Met Asp Gln Leu Leu Asp Thr Ile Arg Ser Leu Thr Ile Gly Cys Ser
1 5 10 15
Ser Cys Ser Ser Leu Met Glu His Phe Glu Asp Thr Arg Glu Lys Asn
20 25 30
Glu Ala Leu Leu Gly Glu Leu Phe Ser Ser Pro His Leu Gln Met Leu
35 40 45
Leu Asn Pro Glu Cys Asp Pro Trp Pro Leu Asp Met Gln Pro Leu Leu
50 55 60
Asn Lys Gln Ser Asp Asp Trp Gln Trp Ala Ser Ala Ser Ala Lys Ser
65 70 75 80
Glu Glu Glu Glu Lys Leu Ala Glu Leu Ala Arg Gln Leu Gln Glu Ser
85 90 95
Ala Ala Lys Leu His Ala Leu Arg Thr Glu Ser Thr Thr Thr Ser Trp
100 105 110
Ala Ser Ala Ala Ser Ala Gln Ala Leu Thr Ser Thr Arg Ala Ala Pro
115 120 125
Ser Ser Arg Pro Arg Thr Arg Ile
130 135

<210> 3029

<211> 617

<212> PRT

<213> Homo sapiens

<400> 3029

Met Val Pro Val Glu Asn Thr Glu Gly Pro Ser Leu Leu Asn Gln Lys

1 5 10 15

Gly Thr Ala Val Glu Thr Glu Gly Ser Gly Ser Arg His Pro Pro Trp

20 25 30

Ala Arg Gly Cys Gly Met Phe Thr Phe Leu Ser Ser Val Thr Ala Ala

35 40 45

Val Ser Gly Leu Leu Val Gly Tyr Glu Leu Gly Ile Ile Ser Gly Ala

50 55 60

Leu Leu Gln Ile Lys Thr Leu Leu Ala Leu Ser Cys His Glu Gln Glu

65 70 75 80

Met Val Val Ser Ser Leu Val Ile Gly Ala Leu Leu Ala Ser Leu Thr

85 90 95

Gly Gly Val Leu Ile Asp Arg Tyr Gly Arg Arg Thr Ala Ile Ile Leu

100 105 110

Ser Ser Cys Leu Leu Gly Leu Gly Ser Leu Val Leu Ile Leu Ser Leu

115 120 125

Ser Tyr Thr Val Leu Ile Val Gly Arg Ile Ala Ile Gly Val Ser Ile

130 135 140

Ser Leu Ser Ser Ile Ala Thr Cys Val Tyr Ile Ala Glu Ile Ala Pro

145 150 155 160

Gln His Arg Arg Gly Leu Leu Val Ser Leu Asn Glu Leu Met Ile Val

165 170 175

Ile Gly Ile Leu Ser Ala Tyr Ile Ser Asn Tyr Ala Phe Ala Asn Val

180 185 190

Phe His Gly Trp Lys Tyr Met Phe Gly Leu Val Ile Pro Leu Gly Val
195 200 205

Leu Gln Ala Ile Ala Met Tyr Phe Leu Pro Pro Ser Pro Arg Phe Leu
210 215 220

Val Met Lys Gly Gln Glu Gly Ala Ala Ser Lys Val Leu Gly Arg Leu
225 230 235 240

Arg Ala Leu Ser Asp Thr Thr Glu Glu Leu Thr Val Ile Lys Ser Ser
245 250 255

Leu Lys Asp Glu Tyr Gln Tyr Ser Phe Trp Asp Leu Phe Arg Ser Lys
260 265 270

Asp Asn Met Arg Thr Arg Ile Met Ile Gly Leu Thr Leu Val Phe Phe
275 280 285

Val Gln Ile Thr Gly Gln Pro Asn Ile Leu Phe Tyr Ala Ser Thr Val
290 295 300

Leu Lys Ser Val Gly Phe Gln Ser Asn Glu Ala Ala Ser Leu Ala Ser
305 310 315 320

Thr Gly Val Gly Val Val Lys Val Ile Ser Thr Ile Pro Ala Thr Leu
325 330 335

Leu Val Asp His Val Gly Ser Lys Thr Phe Leu Cys Ile Gly Ser Ser
340 345 350

Val Met Ala Ala Ser Leu Val Thr Met Gly Ile Val Asn Leu Asn Ile
355 360 365

His Met Asn Phe Thr His Ile Cys Arg Ser His Asn Ser Ile Asn Gln
370 375 380

Ser Leu Asp Glu Ser Val Ile Tyr Gly Pro Gly Asn Leu Ser Thr Asn
385 390 395 400

Asn Asn Thr Leu Arg Asp His Phe Lys Gly Ile Ser Ser His Ser Arg
405 410 415

Ser Ser Leu Met Pro Leu Arg Asn Asp Val Asp Lys Arg Gly Glu Thr

420 425 430
Thr Ser Ala Ser Leu Leu Asn Ala Gly Leu Ser His Thr Glu Tyr Gln
435 440 445
Ile Val Thr Asp Pro Gly Asp Val Pro Ala Phe Leu Lys Trp Leu Ser
450 455 460
Leu Ala Ser Leu Leu Val Tyr Val Ala Ala Phe Ser Ile Gly Leu Gly
465 470 475 480
Pro Met Pro Trp Leu Val Leu Ser Glu Ile Phe Pro Gly Gly Ile Arg
485 490 495
Gly Arg Ala Met Ala Leu Thr Ser Ser Met Asn Trp Gly Ile Asn Leu
500 505 510
Leu Ile Ser Leu Thr Phe Leu Thr Val Thr Asp Leu Ile Gly Leu Pro
515 520 525
Trp Val Cys Phe Ile Tyr Thr Ile Met Ser Leu Ala Ser Leu Leu Phe
530 535 540
Val Val Met Phe Ile Pro Glu Thr Lys Gly Cys Ser Leu Glu Gln Ile
545 550 555 560
Ser Met Glu Leu Ala Lys Val Asn Tyr Val Lys Asn Asn Ile Cys Phe
565 570 575
Met Ser His His Gln Glu Glu Leu Val Pro Lys Gln Pro Gln Lys Arg
580 585 590
Lys Pro Gln Glu Gln Leu Leu Glu Cys Asn Lys Leu Cys Gly Arg Gly
595 600 605
Gln Ser Arg Gln Leu Ser Pro Glu Thr
610 615

<210> 3030

<211> 895

<212> PRT

<213> Homo sapiens

<400> 3030

Met Phe Pro Thr Gly Phe Ser Ser Pro Ser Pro Ser Ala Ala Ala Ala
1 5 10 15
Ala Gln Glu Val Arg Ser Ala Thr Asp Gly Asn Thr Ser Thr Thr Pro
20 25 30
Pro Thr Ser Ala Lys Lys Arg Lys Leu Asn Ser Ser Ser Ser Ser Ser
35 40 45
Ser Asn Arg Ser Asn Glu Arg Glu Asp Phe Asp Ser Thr Ser Ser Ser
50 55 60
Ser Ser Thr Pro Pro Leu Gln Pro Arg Asp Ser Ala Ser Pro Ser Thr
65 70 75 80
Ser Ser Phe Cys Leu Gly Val Ser Val Ala Ala Ser Ser His Val Pro
85 90 95
Ile Gln Lys Lys Leu Arg Phe Glu Asp Thr Leu Glu Phe Val Gly Phe
100 105 110
Asp Ala Lys Met Ala Glu Glu Ser Ser Ser Ser Pro Ser Ser Ser Ser
115 120 125
Pro Thr Ala Ala Thr Ser Gln Gln Gln Gln Leu Lys Asn Lys Ser Ile
130 135 140
Leu Ile Ser Ser Val Ala Ser Val His His Ala Asn Gly Leu Ala Lys
145 150 155 160
Ser Ser Thr Thr Val Ser Ser Phe Ala Asn Ser Lys Pro Gly Ser Ala
165 170 175
Lys Lys Leu Val Ile Lys Asn Phe Lys Asp Lys Pro Lys Leu Pro Glu
180 185 190
Asn Tyr Thr Asp Glu Thr Trp Gln Lys Leu Lys Glu Ala Val Glu Ala

195	200	205
Ile Gln Asn Ser Thr Ser Ile Lys Tyr Asn Leu Glu Glu Leu Tyr Gln		
210	215	220
Ala Val Glu Asn Leu Cys Ser Tyr Lys Ile Ser Ala Asn Leu Tyr Lys		
225	230	235
Gln Leu Arg Gln Ile Cys Gly Asp His Ile Lys Ala Gln Ile His Gln		
245	250	255
Phe Arg Glu Asp Ser Leu Asp Ser Val Leu Phe Leu Lys Lys Ile Asp		
260	265	270
Arg Cys Trp Gln Asn His Cys Arg Gln Met Ile Met Ile Arg Ser Ile		
275	280	285
Phe Leu Phe Leu Asp Arg Thr Tyr Val Leu Gln Asn Ser Met Leu Pro		
290	295	300
Ser Ile Trp Asp Met Gly Leu Glu Leu Phe Arg Ala His Ile Ile Ser		
305	310	315
Asp Gln Lys Val Gln Asn Lys Thr Ile Asp Gly Ile Leu Leu Leu Ile		
325	330	335
Glu Arg Glu Arg Asn Gly Glu Ala Ile Asp Arg Ser Leu Leu Arg Ser		
340	345	350
Leu Leu Ser Met Leu Ser Asp Leu Gln Ile Tyr Gln Asp Ser Phe Glu		
355	360	365
Gln Arg Phe Leu Glu Glu Thr Asn Arg Leu Tyr Ala Ala Glu Gly Gln		
370	375	380
Lys Leu Met Gln Glu Arg Glu Val Pro Glu Tyr Leu His His Val Asn		
385	390	395
Lys Arg Leu Glu Glu Glu Ala Asp Arg Leu Ile Thr Tyr Leu Asp Gln		
405	410	415
Thr Thr Gln Lys Ser Leu Ile Ala Thr Val Glu Lys Gln Leu Leu Gly		
420	425	430

Glu His Leu Thr Ala Ile Leu Gln Lys Gly Leu Asn Asn Leu Leu Asp
435 440 445

Glu Asn Arg Ile Gln Asp Leu Ser Leu Leu Tyr Gln Leu Phe Ser Arg
450 455 460

Val Arg Gly Gly Val Gln Val Leu Leu Gln Gln Trp Ile Glu Tyr Ile
465 470 475 480

Lys Ala Phe Gly Ser Thr Ile Val Ile Asn Pro Glu Lys Asp Lys Thr
485 490 495

Met Val Gln Glu Leu Leu Asp Phe Lys Asp Lys Val Asp His Ile Ile
500 505 510

Asp Ile Cys Phe Leu Lys Asn Glu Lys Phe Ile Asn Ala Met Lys Glu
515 520 525

Ala Phe Glu Thr Phe Ile Asn Lys Arg Pro Asn Lys Pro Ala Glu Leu
530 535 540

Ile Ala Lys Tyr Val Asp Ser Lys Leu Arg Ala Gly Asn Lys Glu Ala
545 550 555 560

Thr Asp Glu Glu Leu Glu Lys Met Leu Asp Lys Ile Met Ile Ile Phe
565 570 575

Arg Phe Ile Tyr Gly Lys Asp Val Phe Glu Ala Phe Tyr Lys Lys Asp
580 585 590

Leu Ala Lys Arg Leu Leu Val Gly Lys Ser Ala Ser Val Asp Ala Glu
595 600 605

Lys Ser Met Leu Ser Lys Leu Lys His Glu Cys Gly Ala Ala Phe Thr
610 615 620

Ser Lys Leu Glu Gly Met Phe Lys Asp Met Glu Leu Ser Lys Asp Ile
625 630 635 640

Met Ile Gln Phe Lys Gln Tyr Met Gln Asn Gln Asn Val Pro Gly Asn
645 650 655

Ile Glu Leu Thr Val Asn Ile Leu Thr Met Gly Tyr Trp Pro Thr Tyr

660 665 670
Val Pro Met Glu Val His Leu Pro Pro Glu Met Val Lys Leu Gln Glu
675 680 685
Ile Phe Lys Thr Phe Tyr Leu Gly Lys His Ser Gly Arg Lys Leu Gln
690 695 700
Trp Gln Ser Thr Leu Gly His Cys Val Leu Lys Ala Glu Phe Lys Glu
705 710 715 720
Gly Lys Lys Glu Leu Gln Val Ser Leu Phe Gln Thr Leu Val Leu Leu
725 730 735
Met Phe Asn Glu Gly Glu Glu Phe Ser Leu Glu Glu Ile Lys Gln Ala
740 745 750
Thr Gly Ile Glu Asp Gly Glu Leu Arg Arg Thr Leu Gln Ser Leu Ala
755 760 765
Cys Gly Lys Ala Arg Val Leu Ala Lys Asn Pro Lys Gly Lys Asp Ile
770 775 780
Glu Asp Gly Asp Lys Phe Ile Cys Asn Asp Asp Phe Lys His Lys Leu
785 790 795 800
Phe Arg Ile Lys Ile Asn Gln Ile Gln Met Lys Glu Thr Val Glu Glu
805 810 815
Gln Ala Ser Thr Thr Glu Arg Val Phe Gln Asp Arg Gln Tyr Gln Ile
820 825 830
Asp Ala Ala Ile Val Arg Ile Met Lys Met Arg Lys Thr Leu Ser His
835 840 845
Asn Leu Leu Val Ser Glu Val Tyr Asn Gln Leu Lys Phe Pro Val Lys
850 855 860
Pro Ala Asp Leu Lys Lys Arg Ile Glu Ser Leu Ile Asp Arg Asp Tyr
865 870 875 880
Met Glu Arg Asp Lys Glu Asn Pro Asn Gln Tyr Asn Tyr Ile Ala
885 890 895

<210> 3031

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3031

Met Leu Ser His Leu Leu Ala Tyr Arg Arg Ser Arg Asp Phe Ile Asp

1 5 10 15

Val Cys Glu Val Ser Glu Asn Val Pro Ala Phe Thr Pro Ala Phe Ser

20 25 30

His Trp His Leu Leu Leu Thr Trp Ala Ile Trp Pro Cys Met Val Leu

35 40 45

Gly Glu Ser Ser Leu Thr Leu Gln Met Leu Ser Ser Asp Leu Ala Gly

50 55 60

Lys Gly Asp Gln Glu Cys Arg Ala Pro Ala Glu Asp Ser Pro Lys Pro

65 70 75 80

Lys Ser Gln Arg Val Gly Ala Pro Thr Thr Ser Ala Cys Met Pro Phe

85 90 95

Pro Gly Ser Pro Gln Ala Asp Ser Gln His Pro Leu Pro Lys Asp Arg

100 105 110

Ala Val Pro Asp Gln His Pro Thr Lys Ser Ser Val Arg Pro Val Phe

115 120 125

Gly Gly Ala Gly Phe Gln Glu Asp Ser Gly Gly Gly Val Glu Leu Met

130 135 140

Ala Gly Gly Ser Gly Pro Leu Arg Lys Leu Cys His Trp Ala Trp Gly

145 150 155 160

<210> 3032

<211> 570

<212> PRT

<213> Homo sapiens

<400> 3032

Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu

1 5 10 15

Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala

20 25 30

Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Gly Ala Gly Leu

35 40 45

Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro Gly Gly Lys Pro Leu Lys

50 55 60

Pro Val Pro Gly Gly Leu Ala Gly Ala Gly Leu Gly Ala Gly Val Gly

65 70 75 80

Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln

85 90 95

Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly

100 105 110

Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro

115 120 125

Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys

130 135 140

Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val

145 150 155 160

Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly

165 170 175

Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala
180 185 190
Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly
195 200 205
Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val
210 215 220
Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala
225 230 235 240
Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala
245 250 255
Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val
260 265 270
Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro
275 280 285
Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro
290 295 300
Ser Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile
305 310 315 320
Ser Pro Glu Ala Gln Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly
325 330 335
Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly
340 345 350
Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala
355 360 365
Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly
370 375 380
Pro Gly Gly Ile Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala
385 390 395 400
Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly

405	410	415
Leu Gly Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val		
420	425	430
Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro		
435	440	445
Gly Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro		
450	455	460
Gly Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly		
465	470	475
Gly Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala		
485	490	495
Ala Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly		
500	505	510
Gly Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly		
515	520	525
Gly Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Ala		
530	535	540
Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys		
545	550	555
Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys		
565	570	

<210> 3033

<211> 493

<212> PRT

<213> Homo sapiens

<400> 3033

Met Val Ala Asp Pro Pro Arg Asp Ser Lys Gly Leu Ala Ala Ala Glu
 1 5 10 15
 Pro Thr Ala Asn Gly Gly Leu Ala Leu Ala Ser Ile Glu Asp Gln Gly
 20 25 30
 Ala Ala Ala Gly Gly Tyr Cys Gly Ser Arg Asp Gln Val Arg Arg Cys
 35 40 45
 Leu Arg Ala Asn Leu Leu Val Leu Leu Thr Val Val Val Cys Ser Leu
 50 55 60
 Ile Gly Gly Ala Ala Ser Leu Asp Pro Gly Ala Leu Gly Arg Leu Gly
 65 70 75 80
 Ala Trp Ala Leu Leu Phe Phe Leu Val Thr Thr Leu Leu Ala Ser Ala
 85 90 95
 Leu Gly Val Gly Leu Ala Leu Ala Leu Gln Pro Gly Ala Ala Ser Ala
 100 105 110
 Ala Ile Asn Ala Ser Val Gly Ala Ala Gly Ser Ala Glu Asn Ala Pro
 115 120 125
 Ser Lys Glu Val Leu Asp Ser Phe Leu Asp Leu Ala Arg Asn Ile Phe
 130 135 140
 Pro Ser Asn Leu Val Ser Ala Ala Phe Arg Ser Tyr Ser Thr Thr Tyr
 145 150 155 160
 Glu Glu Arg Asn Ile Thr Gly Thr Arg Val Lys Val Pro Val Gly Gln
 165 170 175
 Glu Val Glu Gly Met Asn Ile Leu Gly Leu Val Val Phe Ala Ile Val
 180 185 190
 Phe Gly Val Ala Leu Arg Lys Leu Gly Pro Glu Gly Glu Leu Leu Ile
 195 200 205
 Arg Phe Phe Asn Ser Phe Asn Glu Ala Thr Met Val Leu Val Ser Trp
 210 215 220
 Ile Met Trp Tyr Ala Pro Val Gly Ile Met Phe Leu Val Ala Gly Lys

225 230 235 240
Ile Val Glu Met Glu Asp Val Gly Leu Leu Phe Ala Arg Leu Gly Lys
 245 250 255
Tyr Ile Leu Cys Cys Leu Leu Gly His Ala Ile His Gly Leu Leu Val
 260 265 270
Leu Pro Leu Ile Tyr Phe Leu Phe Thr Arg Lys Asn Pro Tyr Arg Phe
 275 280 285
Leu Trp Gly Ile Val Thr Pro Leu Ala Thr Ala Phe Gly Thr Ser Ser
 290 295 300
Ser Ser Ala Thr Leu Pro Leu Met Met Lys Cys Val Glu Glu Asn Asn
305 310 315 320
Gly Val Ala Lys His Ile Ser Arg Phe Ile Leu Pro Ile Gly Ala Thr
 325 330 335
Val Asn Met Asp Gly Ala Ala Leu Phe Gln Cys Val Ala Ala Val Phe
 340 345 350
Ile Ala Gln Leu Ser Gln Gln Ser Leu Asp Phe Val Lys Ile Ile Thr
 355 360 365
Ile Leu Val Thr Ala Thr Ala Ser Ser Val Gly Ala Ala Gly Ile Pro
 370 375 380
Ala Gly Gly Val Leu Thr Leu Ala Ile Ile Leu Glu Ala Val Asn Leu
385 390 395 400
Pro Val Asp His Ile Ser Leu Ile Leu Ala Val Asp Trp Leu Val Asp
 405 410 415
Arg Ser Cys Thr Val Leu Asn Val Glu Gly Asp Ala Leu Gly Ala Gly
 420 425 430
Leu Leu Gln Asn Tyr Val Asp Arg Thr Glu Ser Arg Ser Thr Glu Pro
 435 440 445
Glu Leu Ile Gln Val Lys Ser Glu Leu Pro Leu Asp Pro Leu Pro Val
 450 455 460

<210> 3034

<211> 675

<212> PRT

<213> Homo sapiens

<400> 3034

出証特 2 0 0 4 - 3 0 5 9 6 6 0

130 135 140
Ser Met Thr Met Gln Gly Phe Leu Asn Tyr Tyr Asp Ala Cys Ser Glu
145 150 155 160
Gly Leu Arg Ala Ala Ser Pro Ala Leu Arg Leu Gly Gly Pro Gly Asp
165 170 175
Ser Phe His Thr Pro Pro Arg Ser Pro Leu Ser Trp Gly Leu Leu Arg
180 185 190
His Cys His Asp Gly Thr Asn Phe Phe Thr Gly Glu Ala Gly Val Arg
195 200 205
Leu Asp Tyr Ile Ser Leu His Arg Lys Val Arg Pro Ala Pro Pro Ser
210 215 220
Ala Pro Val Phe Cys Ala Leu Ser Arg Cys Ala Pro Gly Arg Ala Asp
225 230 235 240
Pro Gly Gly Ala Glu Ala Ala Pro Pro Ala Gly Cys Ala Gln Leu His
245 250 255
Leu His Pro Gly Ala Gly Glu Gly Arg Arg Ala Ala Asp Pro Ala Ala
260 265 270
Leu Pro Gln Val Arg Gly His Pro His Leu Gln Arg Arg Gly Gly Pro
275 280 285
Ala Gly Gly Leu Val Pro Ala Thr Ala Val Glu Gly Gly Arg Asp Leu
290 295 300
Arg Gly His Gly Gly Glu Gly Gly Pro Ala Gln Arg Pro Ala Arg Pro
305 310 315 320
Pro Ala Thr Phe Leu Pro Arg Arg Asp Arg Arg Ala Val Ala Ala Pro
325 330 335
Pro Gly Pro Ser Cys Pro Gly His Pro Gln Val Ile Ala Gln His Gln
340 345 350
Asn Leu Leu Leu Ala Asn Thr Thr Ser Ala Phe Pro Tyr Ala Leu Leu
355 360 365

Ser Asn Asp Asn Ala Phe Leu Ser Tyr His Pro His Pro Phe Ala Gln
370 375 380
Arg Thr Leu Thr Ala Arg Phe Gln Val Asn Asn Thr Arg Pro Pro His
385 390 395 400
Val Gln Leu Leu Arg Lys Pro Val Leu Thr Ala Met Gly Leu Leu Ala
405 410 415
Leu Leu Asp Glu Glu Gln Leu Trp Ala Glu Val Ser Gln Ala Gly Thr
420 425 430
Val Leu Asp Ser Asn His Thr Val Gly Val Leu Ala Ser Ala His Arg
435 440 445
Pro Gln Gly Pro Ala Asp Ala Trp Arg Ala Ala Val Leu Ile Tyr Ala
450 455 460
Ser Asp Asp Thr Arg Ala His Pro Asn Arg Ser Val Ala Val Thr Leu
465 470 475 480
Arg Leu Arg Gly Val Pro Pro Gly Pro Gly Leu Val Tyr Val Thr Arg
485 490 495
Tyr Leu Asp Asn Gly Leu Cys Ser Pro Asp Gly Glu Trp Arg Arg Leu
500 505 510
Gly Arg Pro Val Phe Pro Thr Ala Glu Gln Phe Arg Arg Met Arg Ala
515 520 525
Ala Glu Asp Pro Val Ala Ala Ala Pro Arg Pro Leu Pro Ala Gly Gly
530 535 540
Arg Leu Thr Leu Arg Pro Ala Leu Arg Leu Pro Ser Leu Leu Leu Val
545 550 555 560
His Val Cys Ala Arg Pro Glu Lys Pro Pro Gly Gln Val Thr Arg Leu
565 570 575
Arg Ala Leu Pro Leu Thr Gln Gly Gln Leu Val Leu Val Trp Ser Asp
580 585 590
Glu His Val Gly Ser Lys Cys Leu Trp Thr Tyr Glu Ile Gln Phe Ser

595 600 605
 Gln Asp Gly Lys Ala Tyr Thr Pro Val Ser Arg Lys Pro Ser Thr Phe
 610 615 620
 Asn Leu Phe Val Phe Ser Pro Asp Thr Gly Ala Val Ser Gly Ser Tyr
 625 630 635 640
 Arg Val Arg Ala Leu Asp Tyr Trp Ala Arg Pro Gly Pro Phe Ser Asp
 645 650 655
 Pro Val Pro Tyr Leu Glu Val Pro Val Pro Arg Gly Pro Pro Ser Pro
 660 665 670
 Gly Asn Pro
 675

<210> 3035

<211> 334

<212> PRT

<213> Homo sapiens

<400> 3035

Met His Ser Ser Ser Phe Arg Phe Val Asn Ile Trp Pro Ala Leu Phe
 1 5 10 15
 Phe Ala Pro Arg Ser Val Val Arg Arg Ala Ala Ser Leu Leu Ser Lys
 20 25 30
 Val Val Asp Ser Leu Ala Pro Ser Ile Thr Asn Val Leu Val Gln Gly
 35 40 45
 Lys Gln Val Thr Leu Gly Ala Phe Gly His Glu Glu Glu Val Ile Ser
 50 55 60
 Asn Pro Leu Ser Pro Arg Val Ile Gln Asn Ile Ile Tyr Tyr Lys Cys
 65 70 75 80

Asn Thr His Asp Glu Arg Glu Ala Val Ile Gln Gln Glu Leu Val Ile			
	85	90	95
His Ile Gly Trp Ile Ile Ser Asn Asn Pro Glu Leu Phe Ser Gly Met			
	100	105	110
Leu Lys Ile Arg Ile Gly Trp Ile Ile His Ala Met Glu Tyr Glu Leu			
	115	120	125
Gln Ile Arg Gly Gly Asp Lys Pro Ala Leu Asp Leu Tyr Gln Leu Ser			
	130	135	140
Pro Ser Glu Val Lys Gln Leu Leu Leu Asp Ile Leu Gln Pro Gln Gln			
	145	150	155
Asn Gly Arg Cys Trp Leu Asn Arg Arg Gln Ile Asp Gly Ser Leu Asn			
	165	170	175
Arg Thr Pro Thr Gly Phe Tyr Asp Arg Val Trp Gln Ile Leu Glu Arg			
	180	185	190
Thr Pro Asn Gly Ile Ile Val Ala Gly Lys His Leu Pro Gln Gln Pro			
	195	200	205
Thr Leu Ser Asp Met Thr Met Tyr Glu Met Asn Phe Ser Leu Leu Val			
	210	215	220
Glu Asp Thr Leu Gly Asn Ile Asp Gln Pro Gln Tyr Arg Gln Ile Val			
	225	230	235
Val Glu Leu Leu Met Val Val Ser Ile Val Leu Glu Arg Asn Pro Glu			
	245	250	255
Leu Glu Phe Gln Asp Lys Val Asp Leu Asp Arg Leu Val Lys Glu Ala			
	260	265	270
Phe Asn Glu Phe Gln Lys Asp Gln Ser Arg Leu Lys Glu Ile Glu Lys			
	275	280	285
Gln Asp Asp Met Thr Ser Phe Tyr Asn Thr Pro Pro Leu Gly Lys Arg			
	290	295	300
Gly Thr Cys Ser Tyr Leu Thr Lys Ala Val Met Asn Leu Leu Leu Glu			

305 310 315 320
 Gly Glu Val Lys Pro Asn Asn Asp Asp Pro Cys Leu Ile Ser
 325 330

<210> 3036

<211> 578

<212> PRT

<213> Homo sapiens

<400> 3036

Met Gly Asp Ser Pro Gly Arg Gly Ala Pro Glu Arg Arg His Lys Ala
 1 5 10 15
 Gln Pro Gly Arg Ala Arg Lys Tyr Glu Trp Arg Pro Glu Gly Pro Thr
 20 25 30
 Ser Met Gly Ser Leu Gly Gln Arg Glu Asp Leu Gln Asp Glu Asp Arg
 35 40 45
 Asn Ser Ala Phe Thr Trp Lys Val Gln Ala Asn Asn Arg Ala Tyr Asn
 50 55 60
 Gly Gln Phe Lys Glu Lys Val Ile Leu Cys Trp Gln Arg Lys Lys Tyr
 65 70 75 80
 Lys Thr Asn Val Ile Arg Thr Ala Lys Tyr Asn Phe Tyr Ser Phe Leu
 85 90 95
 Pro Leu Asn Leu Tyr Glu Gln Phe His Arg Val Ser Asn Leu Phe Phe
 100 105 110
 Leu Ile Ile Ile Ile Leu Gln Ser Ile Pro Asp Ile Ser Thr Leu Pro
 115 120 125
 Trp Phe Ser Leu Ser Thr Pro Met Val Cys Leu Leu Phe Ile Arg Ala
 130 135 140

Thr Arg Asp Leu Val Asp Asp Met Gly Arg His Lys Ser Asp Arg Ala
 145 150 155 160
 Ile Asn Asn Arg Pro Cys Gln Ile Leu Met Gly Lys Ser Phe Lys Gln
 165 170 175
 Lys Lys Trp Gln Asp Leu Cys Val Gly Asp Val Val Cys Leu Arg Lys
 180 185 190
 Asp Asn Ile Val Pro Ala Asp Met Leu Leu Leu Ala Ser Thr Glu Pro
 195 200 205
 Ser Ser Leu Cys Tyr Val Glu Thr Val Asp Ile Asp Gly Glu Thr Asn
 210 215 220
 Leu Lys Phe Arg Gln Ala Leu Met Val Thr His Lys Glu Leu Ala Thr
 225 230 235 240
 Ile Lys Lys Met Ala Ser Phe Gln Gly Thr Val Thr Cys Glu Ala Pro
 245 250 255
 Asn Ser Arg Met His His Phe Val Gly Cys Leu Glu Trp Asn Asp Lys
 260 265 270
 Lys Tyr Ser Leu Asp Ile Gly Asn Leu Leu Leu Arg Gly Cys Arg Ile
 275 280 285
 Arg Asn Thr Asp Thr Cys Tyr Gly Leu Val Ile Tyr Ala Gly Phe Asp
 290 295 300
 Thr Lys Ile Met Lys Asn Cys Gly Lys Ile His Leu Lys Arg Thr Lys
 305 310 315 320
 Leu Asp Leu Leu Met Asn Lys Leu Val Val Val Ile Phe Ile Ser Val
 325 330 335
 Val Leu Val Cys Leu Val Leu Ala Phe Gly Phe Gly Phe Ser Val Lys
 340 345 350
 Glu Phe Lys Asp His His Tyr Tyr Leu Ser Gly Val His Gly Ser Ser
 355 360 365
 Val Ala Ala Glu Ser Phe Phe Val Phe Trp Ser Phe Leu Ile Leu Leu

370	375	380
Ser Val Thr Ile Pro Met Ser Met Phe Ile Leu Ser Glu Phe Ile Tyr		
385	390	395
Leu Gly Asn Ser Val Phe Ile Asp Trp Asp Val Gln Met Tyr Tyr Lys		
405	410	415
Pro Gln Asp Val Pro Ala Lys Ala Arg Ser Thr Ser Leu Asn Asp His		
420	425	430
Leu Gly Gln Val Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr		
435	440	445
Gln Asn Ile Leu Thr Phe Asn Lys Cys Cys Ile Ser Gly Arg Val Tyr		
450	455	460
Gly Ala Ala Pro Thr Pro Glu Leu Pro Ala Gly Ser Ser Ile Phe Lys		
465	470	475
Gly Leu Arg Val Pro Glu Asn Gln Ser His Val Trp Pro His Ala Gln		
485	490	495
His Leu Arg Pro Asn Leu Asn Gln Gly Thr Val Ala Arg Trp Pro Gly		
500	505	510
Phe Leu Trp Arg Gly Pro Gly Lys Phe Phe Phe Phe Leu Arg Gln Ser		
515	520	525
Leu Thr Leu Ser Thr Gln Ala Gly Val Gln Trp Cys Asn Leu Gly Ser		
530	535	540
Leu Gln Ser Pro Pro Pro Gly Phe Arg Arg Phe Ser Trp Leu Ser Leu		
545	550	555
Pro Ser Gly Trp Asp Tyr Arg His Leu Pro Pro His Leu Ile Phe Leu		
565	570	575
Tyr Phe		

<210> 3037

<211> 409

<212> PRT

<213> Homo sapiens

<400> 3037

Met Gln Val Thr Leu Lys Thr Leu Gln Gln Gln Thr Phe Lys Ile Asp

1 5 10 15

Ile Asp Pro Glu Glu Thr Val Lys Ala Leu Lys Glu Lys Ile Glu Ser

20 25 30

Glu Lys Gly Lys Asp Ala Phe Pro Val Ala Gly Gln Lys Leu Ile Tyr

35 40 45

Ala Gly Lys Ile Leu Asn Asp Asp Thr Ala Leu Lys Glu Tyr Lys Ile

50 55 60

Asp Glu Lys Asn Phe Val Val Val Met Val Thr Lys Pro Lys Ala Val

65 70 75 80

Ser Thr Pro Ala Pro Ala Thr Thr Gln Gln Ser Ala Pro Ala Ser Thr

85 90 95

Thr Ala Val Thr Ser Ser Thr Thr Thr Thr Val Ala Gln Ala Pro Thr

100 105 110

Pro Val Pro Ala Leu Ala Pro Thr Ser Thr Pro Ala Ser Ile Thr Pro

115 120 125

Ala Ser Ala Thr Ala Ser Ser Glu Pro Ala Pro Ala Ser Ala Ala Lys

130 135 140

Gln Glu Lys Pro Ala Glu Lys Pro Ala Glu Thr Pro Val Ala Thr Ser

145 150 155 160

Pro Thr Ala Thr Asp Ser Thr Ser Gly Asp Ser Ser Arg Ser Asn Leu

165 170 175

Phe Glu Asp Ala Thr Ser Ala Leu Val Thr Gly Gln Ser Tyr Glu Asn

180	185	190
Met Val Thr Glu Ile Met Ser Met Gly Tyr Glu Arg Glu Gln Val Ile		
195	200	205
Ala Ala Leu Arg Ala Ser Phe Asn Asn Pro Asp Arg Ala Val Glu Tyr		
210	215	220
Leu Leu Met Gly Ile Pro Gly Asp Arg Glu Ser Gln Ala Val Val Asp		
225	230	235
Pro Pro Gln Ala Ala Ser Thr Gly Ala Pro Gln Ser Ser Ala Val Ala		
245	250	255
Ala Ala Ala Ala Thr Thr Thr Ala Thr Thr Thr Thr Thr Ser Ser Gly		
260	265	270
Gly His Pro Leu Glu Phe Leu Arg Asn Gln Pro Gln Phe Gln Gln Met		
275	280	285
Arg Gln Ile Ile Gln Gln Asn Pro Ser Leu Leu Pro Ala Leu Leu Gln		
290	295	300
Gln Ile Gly Arg Glu Asn Pro Gln Leu Leu Gln Gln Ile Ser Gln His		
305	310	315
Gln Glu His Phe Ile Gln Met Leu Asn Glu Pro Val Gln Glu Ala Gly		
325	330	335
Gly Gln Gly Gly Gly Gly Gly Gly Gly Ser Gly Gly Ile Ala Glu Ala		
340	345	350
Gly Ser Gly His Met Asn Tyr Ile Gln Val Thr Pro Gln Glu Lys Glu		
355	360	365
Ala Ile Glu Arg Leu Lys Ala Leu Gly Phe Pro Glu Gly Leu Val Ile		
370	375	380
Gln Ala Tyr Phe Ala Cys Glu Lys Asn Glu Asn Leu Ala Ala Asn Phe		
385	390	395
Leu Leu Gln Gln Asn Phe Asp Glu Asp		
405		

<210> 3038

<211> 521

<212> PRT

<213> Homo sapiens

<400> 3038

Met Pro Ser Ala Lys Gln Arg Gly Ser Lys Gly Gly His Gly Ala Ala

1 5 10 15

Ser Pro Ser Glu Lys Gly Ala His Pro Ser Gly Gly Ala Asp Asp Val

20 25 30

Ala Lys Lys Pro Pro Pro Ala Ala Phe Ser Gly Trp Cys Val His His

35 40 45

Val Leu Glu Glu Val Gln Gln Val Arg Arg Ser His Gln Asp Phe Ser

50 55 60

Arg Gln Arg Glu Glu Leu Gly Gln Gly Leu Gln Gly Val Glu Gln Lys

65 70 75 80

Val Gln Ser Leu Gln Ala Thr Phe Gly Thr Phe Glu Ser Ile Leu Arg

85 90 95

Ser Ser Gln His Lys Gln Asp Leu Thr Glu Lys Ala Val Lys Gln Gly

100 105 110

Glu Ser Glu Val Ser Arg Ile Ser Glu Val Leu Gln Lys Leu Gln Asn

115 120 125

Glu Ile Leu Lys Asp Leu Ser Asp Gly Ile His Val Val Lys Asp Ala

130 135 140

Arg Glu Arg Asp Phe Thr Ser Leu Glu Asn Thr Val Glu Glu Arg Leu

145 150 155 160

Thr Glu Leu Thr Lys Ser Ile Asn Asp Asn Ile Ala Ile Phe Thr Glu

165	170	175
Val Gln Lys Arg Ser Gln Lys Glu Ile Asn Asp Met Lys Ala Lys Val		
180	185	190
Ala Ser Leu Glu Glu Ser Glu Gly Asn Lys Gln Asp Leu Lys Ala Leu		
195	200	205
Lys Glu Ala Val Lys Glu Ile Gln Thr Ser Ala Lys Ser Arg Glu Trp		
210	215	220
Asp Met Glu Ala Leu Arg Ser Thr Leu Gln Thr Met Glu Ser Asp Ile		
225	230	235
240		
Tyr Thr Glu Val Arg Glu Leu Val Ser Leu Lys Gln Glu Gln Gln Ala		
245	250	255
Phe Lys Glu Ala Ala Asp Thr Glu Arg Leu Ala Leu Gln Ala Leu Thr		
260	265	270
Glu Lys Leu Leu Arg Ser Glu Glu Ser Val Ser Arg Leu Pro Glu Glu		
275	280	285
Ile Arg Arg Leu Glu Glu Glu Leu Arg Gln Leu Lys Ser Asp Ser His		
290	295	300
Gly Pro Lys Glu Asp Gly Gly Phe Arg His Ser Glu Ala Phe Glu Ala		
305	310	315
320		
Leu Gln Gln Lys Ser Gln Gly Leu Asp Ser Arg Leu Gln His Val Glu		
325	330	335
Asp Gly Val Leu Ser Met Gln Val Ala Ser Ala Arg Gln Thr Glu Ser		
340	345	350
Leu Glu Ser Leu Leu Ser Lys Ser Gln Glu His Glu Gln Arg Leu Ala		
355	360	365
Ala Leu Gln Gly Arg Leu Glu Gly Leu Gly Ser Ser Glu Ala Asp Gln		
370	375	380
Asp Gly Leu Ala Ser Thr Val Arg Ser Leu Gly Glu Thr Gln Leu Val		
385	390	395
400		

Leu Tyr Gly Asp Val Glu Glu Leu Lys Arg Ser Val Gly Glu Leu Pro
 405 410 415
 Ser Thr Val Glu Ser Leu Gln Lys Val Gln Glu Gln Val Tyr Thr Leu
 420 425 430
 Leu Ser Gln Asp Gln Ala Gln Ala Ala Arg Leu Pro Pro Gln Asp Phe
 435 440 445
 Leu Asp Arg Leu Ser Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln
 450 455 460
 Val Glu Ala Asp Leu Lys Met Leu Arg Thr Ala Val Asp Ser Leu Val
 465 470 475 480
 Ala Tyr Ser Val Lys Ile Glu Thr Asn Glu Asn Asn Leu Glu Ser Ala
 485 490 495
 Lys Gly Leu Leu Asp Asp Leu Arg Asn Asp Leu Asp Arg Leu Phe Val
 500 505 510
 Lys Val Glu Lys Ile His Glu Lys Val
 515 520

<210> 3039

<211> 228

<212> PRT

<213> Homo sapiens

<400> 3039

Met Cys His Val Ile Val Thr Cys Arg Ser Met Leu Trp Thr Leu Leu
 1 5 10 15
 Ser Ile Val Val Ala Phe Ala Glu Leu Ile Ala Phe Met Ser Ala Asp
 20 25 30
 Trp Leu Thr Gly Lys Ala Arg Ser Arg Gly Gly Val Glu Pro Ala Gly

35 40 45
 Pro Gly Gly Gly Ser Pro Glu Pro Tyr His Pro Thr Leu Gly Ile Tyr
 50 55 60
 Ala Arg Cys Ile Arg Asn Pro Gly Val Gln His Phe Gln Arg Asp Thr
 65 70 75 80
 Leu Cys Gly Pro Tyr Ala Glu Ser Phe Gly Glu Ile Ala Ser Gly Phe
 85 90 95
 Trp Gln Ala Thr Ala Ile Phe Leu Ala Val Gly Ile Phe Ile Leu Cys
 100 105 110
 Met Val Ala Leu Val Ser Val Phe Thr Met Cys Val Gln Ser Ile Met
 115 120 125
 Lys Lys Ser Ile Phe Asn Val Cys Gly Leu Leu Gln Gly Ile Ala Gly
 130 135 140
 Leu Phe Leu Ile Leu Gly Leu Ile Leu Tyr Pro Ala Gly Trp Gly Cys
 145 150 155 160
 Gln Lys Ala Ile Asp Tyr Cys Gly His Tyr Ala Ser Ala Tyr Lys Pro
 165 170 175
 Gly Asp Cys Ser Leu Gly Trp Ala Phe Tyr Thr Ala Ile Gly Gly Thr
 180 185 190
 Val Leu Thr Phe Ile Cys Ala Val Phe Ser Ala Gln Ala Glu Ile Ala
 195 200 205
 Thr Ser Ser Asp Lys Val Gln Glu Glu Ile Glu Glu Gly Lys Asn Leu
 210 215 220
 Ile Cys Leu Leu
 225

<210> 3040

<211> 544

<212> PRT

<213> Homo sapiens

<400> 3040

Met Pro Pro Asn Leu Gly Asn Ala Gly Leu Leu Gly Arg Met Leu Asp

1 5 10 15

Glu Lys Thr Pro Pro Ser Pro Ser Gly Gln Pro Glu Glu Pro Gly Met

20 25 30

Val Arg Leu Val Cys Gly His His Asn Trp Ile Ala Val Ala Tyr Thr

35 40 45

Gln Phe Leu Val Cys Tyr Arg Leu Lys Glu Ala Ser Gly Trp Gln Leu

50 55 60

Val Phe Ser Ser Pro Arg Leu Asp Trp Pro Ile Glu Arg Leu Ala Leu

65 70 75 80

Thr Ala Arg Val His Gly Gly Ala Leu Gly Glu His Asp Lys Met Val

85 90 95

Ala Ala Ala Thr Gly Ser Glu Ile Leu Leu Trp Ala Leu Gln Ala Glu

100 105 110

Gly Gly Gly Ser Glu Ile Gly Val Phe His Leu Gly Val Pro Val Glu

115 120 125

Ala Leu Phe Phe Val Gly Asn Gln Leu Ile Ala Thr Ser His Thr Gly

130 135 140

Arg Ile Gly Val Trp Asn Ala Val Thr Lys His Trp Gln Val Gln Glu

145 150 155 160

Val Gln Pro Ile Thr Ser Tyr Asp Ala Ala Gly Ser Phe Leu Leu Leu

165 170 175

Gly Cys Asn Asn Gly Ser Ile Tyr Tyr Val Asp Val Gln Lys Phe Pro

180 185 190

Leu Arg Met Lys Asp Asn Asp Leu Leu Val Ser Glu Leu Tyr Arg Asp

195	200	205
Pro Ala Glu Asp Gly Val Thr	Ala Leu Ser Val Tyr Leu Thr	Pro Lys
210	215	220
Thr Ser Asp Ser Gly Asn Trp Ile Glu Ile Ala Tyr Gly Thr Ser Ser		
225	230	235
Gly Gly Val Arg Val Ile Val Gln His Pro Glu Thr Val Gly Ser Gly		
245	250	255
Pro Gln Leu Phe Gln Thr Phe Thr Val His Arg Ser Pro Val Thr Lys		
260	265	270
Ile Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn		
275	280	285
His Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr		
290	295	300
Gln Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu		
305	310	315
Ser Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro		
325	330	335
Tyr Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro		
340	345	350
Ser Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val		
355	360	365
Cys Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val		
370	375	380
Leu Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr		
385	390	395
Leu Leu Thr Gly Gln Ala Asn Gly Ser Leu Ala Met Trp Asp Leu Thr		
405	410	415
Thr Ala Met Asp Gly Leu Gly Gln Ala Pro Ala Gly Gly Leu Thr Glu		
420	425	430

Gln Glu Leu Met Glu Gln Leu Glu His Cys Glu Leu Ala Pro Pro Ala
 435 440 445
 Pro Ser Ala Pro Ser Trp Gly Cys Leu Pro Ser Pro Ser Pro Arg Ile
 450 455 460
 Ser Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser Leu Ser Gly
 465 470 475 480
 His Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg Arg Arg Gly
 485 490 495
 Gly Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg Ser Gly Pro
 500 505 510
 Asp Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser Ser Gly Leu
 515 520 525
 Gly Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu Thr Ser Phe
 530 535 540

<210> 3041

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3041

Met Asp Phe Ser Ala Pro Glu Leu Gln Leu Lys Pro Thr Arg Ala Ala
 1 5 10 15
 Thr His Arg Thr Thr Ser Phe Pro Pro Arg Arg Met Gln Trp Gly Trp
 20 25 30
 Leu Phe Gly Ser Leu His Ser Cys His Trp Leu Gly Arg Gln Pro Leu
 35 40 45
 Leu Ser Leu Lys Ala Val Val Ser Phe Arg Val Phe Ser Trp Lys Ser

50 55 60
 Arg Arg Asn Ser Ser Leu Ile Arg Arg Trp Gly Pro Gly Gly Gly Ser
 65 70 75 80
 Gly Ile Arg Gly Gln Ala Ala His Arg Ile Arg Ala Ser Leu Cys Pro
 85 90 95
 Pro Asp Ala Pro Trp Gly Glu Ser Ser Val
 100 . 105

<210> 3042

<211> 574

<212> PRT

<213> Homo sapiens

<400> 3042

Met Val Gly Glu Arg His Ala Gly Asp Leu Met Val Pro Leu Gly Pro
 1 5 10 15
 Arg Leu Gln Ala Tyr Pro Glu Glu Leu Ile Arg Gln Arg Pro Gly His
 20 25 30
 Asp Gly His Pro Glu Tyr Leu Ile Arg Trp Ser Val Leu Lys Cys Gly
 35 40 45
 Glu Val Gly Lys Val Gly Val Glu Glu Gly Lys Ala Glu His Ile Leu
 50 55 60
 Met Trp Leu Ser Ala Pro Glu Val Tyr Ala Asn Cys Pro Gly Leu Leu
 65 70 75 80
 Gly Glu Arg Ala Leu Ser Lys Gly Leu Gln His Glu Pro Ala Gly Val
 85 90 95
 Ser Gly Ser Phe Pro Arg Asp Pro Gly Gly Leu Asp Glu Val Ala Met
 100 105 110

Gly Glu Met Glu Ala Asp Val Gln Ala Leu Val Arg Arg Ala Ala Arg
 115 120 125
 Gln Leu Ala Glu Ser Gly Thr Pro Ser Leu Thr Ala Ala Val Leu His
 130 135 140
 Thr Ile His Val Leu Ser Ala Tyr Ala Ser Ile Gly Pro Leu Thr Gly
 145 150 155 160
 Val Phe Arg Glu Thr Gly Ala Leu Asp Leu Leu Met His Met Leu Cys
 165 170 175
 Asn Pro Glu Pro Gln Ile Arg Arg Ser Ala Gly Lys Met Leu Gln Ala
 180 185 190
 Leu Ala Ala His Asp Ala Gly Ser Arg Ala His Val Leu Leu Ser Leu
 195 200 205
 Ser Gln Gln Asp Gly Ile Glu Gln His Met Asp Phe Asp Ser Arg Tyr
 210 215 220
 Thr Leu Leu Glu Leu Phe Ala Glu Thr Thr Ser Ser Glu Glu His Cys
 225 230 235 240
 Met Ala Phe Glu Gly Ile His Leu Pro Gln Ile Pro Gly Lys Leu Leu
 245 250 255
 Phe Ser Leu Val Lys Arg Tyr Leu Cys Val Thr Ser Leu Leu Asp Gln
 260 265 270
 Leu Asn Ser Ser Pro Glu Leu Gly Ala Gly Asp Gln Ser Ser Pro Cys
 275 280 285
 Ala Thr Arg Glu Lys Ser Arg Gly Gln Arg Glu Leu Glu Phe Ser Met
 290 295 300
 Ala Val Gly Asn Leu Ile Ser Glu Leu Val Arg Ser Met Gly Trp Ala
 305 310 315 320
 Arg Asn Leu Ser Glu Gln Gly Met Ser Pro Pro Arg Pro Thr Arg Ser
 325 330 335
 Ile Phe Gln Pro Tyr Ile Ser Gly Pro Ser Leu Leu Leu Pro Thr Ile

340	345	350
Val Thr Thr Pro Arg Arg Gln Gly Trp Val Phe Arg Gln Arg Ser Glu		
355	360	365
Phe Ser Ser Arg Ser Gly Tyr Gly Glu Tyr Val Gln Gln Thr Leu Gln		
370	375	380
Pro Gly Met Arg Val Arg Met Leu Asp Asp Tyr Glu Glu Ile Ser Ala		
385	390	395
Gly Asp Glu Gly Glu Phe Arg Gln Ser Asn Asn Gly Ile Pro Pro Val		
405	410	415
Gln Thr Leu Gly Glu Lys Ala Leu Gly Glu Ile Ser Val Ser Val Glu		
420	425	430
Met Ala Glu Ser Leu Leu Gln Val Leu Ser Ser Arg Phe Glu Gly Ser		
435	440	445
Thr Leu Asn Asp Leu Leu Asn Ser Gln Ile Tyr Thr Lys Tyr Gly Leu		
450	455	460
Leu Ser Asn Glu Pro Ser Ser Ser Ser Thr Ser Arg Asn His Ser Cys		
465	470	475
Thr Pro Asp Pro Glu Glu Glu Ser Lys Ser Glu Ala Ser Phe Ser Glu		
485	490	495
Glu Glu Thr Glu Ser Leu Lys Ala Lys Ala Glu Ala Pro Lys Thr Glu		
500	505	510
Ala Glu Pro Thr Lys Thr Arg Thr Glu Thr Pro Met Ala Gln Ser Asp		
515	520	525
Ser Gln Leu Phe Asn Gln Leu Leu Val Thr Glu Gly Met Thr Leu Pro		
530	535	540
Thr Glu Met Lys Glu Ala Ala Ser Gly Glu Ser Gly Ser Gly Arg Lys		
545	550	555
Gln Leu Glu Gln Val Leu Gly Ser Leu Ser Arg Arg Asn Gly		
565	570	

<210> 3043

<211> 177

<212> PRT

<213> Homo sapiens

<400> 3043

```

Met Val Arg Ala Arg Val Val Leu Pro Gly Arg Ser Cys Gly Arg Gly
  1             5             10             15
Gly Gly Val Cys Arg Val Gly Arg Cys Val Cys Ser Asp Thr Leu Val
          20             25             30
Leu Gly Ala Ala Gly His Ile Thr Gly Asp Met Pro Asn Gly Val Arg
          35             40             45
Gln Arg Ser Arg Val Ser Thr Val Glu Arg Pro Arg Trp Gln Gly Leu
          50             55             60
Pro Gly Val His Thr Ser Arg Cys Val Thr Arg Glu Gly Pro Met His
          65             70             75             80
Gly Ala Ser Ser Ser Cys Ile Arg Gln Cys Arg Ile Ser Pro Thr Val
          85             90             95
Cys Phe Leu Leu Arg Gln Arg Pro His Ala Cys Leu Leu Pro Pro Leu
          100            105            110
Gln Val Lys Arg Ser Arg Ser Lys Gly Gly Leu Ala Gly Pro Asp Gly
          115            120            125
Thr Lys Ser Val Phe Gly Gln Met Cys Ala Lys Met Ser Ser Phe Gly
          130            135            140
Pro Asp Ser Leu Leu Leu Pro His Arg Val Trp Lys Val Lys Phe Val
          145            150            155            160
Gly Glu Asn Leu Pro Arg Ala Gly Ala Pro Val Ser Pro Ala Val Val

```


165

170

175

Ala

<210> 3044

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3044

Met Ser Ile Asp Gln Arg Lys Lys Met Leu Lys Asn Leu Arg Asn Thr

1

5

10

15

Asn Tyr Asp Val Phe Glu Arg Ile Cys Trp Gly Leu Gly Ile Glu Tyr

20

25

30

Thr Phe Pro Pro Leu Tyr Tyr Arg Arg Ala His Arg Arg Phe Val Thr

35

40

45

Lys Lys Ala Leu Cys Ile Arg Val Phe Gln Glu Thr Gln Lys Leu Lys

50

55

60

Lys Arg Arg Arg Ala Leu Lys Ala Ala Ala Ala Ala Gln Lys Gln Ala

65

70

75

80

Lys Arg Arg Asn Pro Asp Ser Pro Ala Lys Ala Ile Pro Lys Thr Leu

85

90

95

Lys Asp Ser Gln

100

<210> 3045

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3045

Met Gly Ile Ala Met Gly Pro Gly Ala Thr Arg Trp Thr Gln Gly Pro
1 5 10 15
His Ser Thr Thr Val Pro Cys Asp Ala Ala Leu Met Thr Ser Arg His
20 25 30
Gln Ser Trp Thr Pro Pro Gln Val Arg Ser Trp Ala Ser Tyr Gly Ser
35 40 45
Gly Pro Leu Ala His Asp Ile His Thr Val Trp Val Ser Ser Ser Pro
50 55 60
Pro His Pro Thr Asp Gln Val Gln Phe Glu Lys Cys Gly Lys Arg Val
65 70 75 80
Asp Arg Leu Asp Gln Arg Arg Ser Lys Leu Arg Val Ala Gly Gly His
85 90 95
Pro Gly Asn Ser Pro Trp Thr Val Ser Leu Gly Asn Arg
100 105

<210> 3046

<211> 491

<212> PRT

<213> Homo sapiens

<400> 3046

Met Met Ser Glu His Asp Leu Ala Asp Val Val Gln Ile Ala Val Glu
1 5 10 15
Asp Leu Ser Pro Asp His Pro Val Val Leu Glu Asn His Val Val Thr

20	25	30
Asp Glu Asp Glu Pro Ala Leu Lys Arg Gln Arg Leu Glu Ile Asn Cys		
35	40	45
Gln Asp Pro Ser Ile Lys Ser Phe Leu Tyr Ser Ile Asn Gln Thr Ile		
50	55	60
Cys Leu Arg Leu Asp Ser Ile Glu Ala Lys Leu Gln Ala Leu Glu Ala		
65	70	75
80		
Thr Cys Lys Ser Leu Glu Glu Lys Leu Asp Leu Val Thr Asn Lys Gln		
85	90	95
His Ser Pro Ile Gln Val Pro Met Val Ala Gly Ser Pro Leu Gly Ala		
100	105	110
Thr Gln Thr Cys Asn Lys Val Arg Cys Ala Val Pro Gly Arg Arg Gln		
115	120	125
Asn Thr Ile Val Val Lys Val Pro Gly Gln Glu Asp Ser His His Glu		
130	135	140
Asp Gly Glu Ser Gly Ser Glu Ala Ser Asp Ser Val Ser Ser Cys Gly		
145	150	155
160		
Gln Ala Gly Ser Gln Ser Ile Gly Ser Asn Val Thr Leu Ile Thr Leu		
165	170	175
Asn Ser Glu Glu Asp Tyr Pro Asn Gly Thr Trp Leu Gly Asp Glu Asn		
180	185	190
Asn Pro Glu Met Arg Val Arg Cys Ala Ile Ile Pro Ser Asp Met Leu		
195	200	205
His Ile Ser Thr Asn Cys Arg Thr Ala Glu Lys Met Ala Leu Thr Leu		
210	215	220
Leu Asp Tyr Leu Phe His Arg Glu Val Gln Ala Val Ser Asn Leu Ser		
225	230	235
240		
Gly Gln Gly Lys His Gly Lys Lys Gln Leu Asp Pro Leu Thr Ile Tyr		
245	250	255

Gly Ile Arg Cys His Leu Phe Tyr Lys Phe Gly Ile Thr Glu Ser Asp
260 265 270
Trp Tyr Arg Ile Lys Gln Ser Ile Asp Ser Lys Cys Arg Thr Ala Trp
275 280 285
Arg Arg Lys Gln Arg Gly Gln Ser Leu Ala Val Lys Ser Phe Ser Arg
290 295 300
Arg Thr Pro Asn Ser Ser Ser Tyr Cys Pro Ser Glu Pro Met Met Ser
305 310 315 320
Thr Pro Pro Pro Ala Ser Glu Leu Pro Gln Pro Gln Pro Gln Pro Gln
325 330 335
Ala Leu His Tyr Ala Leu Ala Asn Ala Gln Gln Val Gln Ile His Gln
340 345 350
Ile Gly Glu Asp Gly Gln Val Gln Val Ile Pro Gln Gly His Leu His
355 360 365
Ile Ala Gln Val Pro Gln Gly Glu Gln Val Gln Ile Thr Gln Asp Ser
370 375 380
Glu Gly Asn Leu Gln Ile His His Val Gly Gln Asp Gly Gln Leu Leu
385 390 395 400
Glu Ala Thr Arg Ile Pro Cys Leu Leu Ala Pro Ser Val Phe Lys Ala
405 410 415
Ser Ser Gly Gln Val Leu Gln Gly Ala Gln Leu Ile Ala Val Ala Ser
420 425 430
Ser Asp Pro Ala Ala Ala Gly Val Asp Gly Ser Pro Leu Gln Gly Ser
435 440 445
Asp Ile Gln Val Gln Tyr Val Gln Leu Ala Pro Val Ser Asp His Thr
450 455 460
Ala Gly Ala Gln Thr Ala Glu Ala Leu Gln Pro Thr Leu Gln Pro Glu
465 470 475 480
Met Gln Leu Glu His Gly Ala Ile Gln Ile Gln

485

490

<210> 3047

<211> 149

<212> PRT

<213> Homo sapiens

<400> 3047

Met Ala Met Ala His Ala Gly Leu Cys Gly Trp Arg Gly Glu Val Ser

1 5 10 15

Leu Asp Ser Arg Glu Lys Pro Trp Gly Asn Pro Lys Gly Leu Arg Lys

20 25 30

Thr Gly Ile Gly Val Arg His Glu Gly Arg Glu Ser Leu Gly Lys Thr

35 40 45

Gly Arg Ala Val Arg Ser Pro Glu Gly Ser Cys Gly Cys Ser Ala Ala

50 55 60

Gly Arg Pro Arg Leu Ala Pro Pro Arg Arg Trp Ala Ser Pro Pro Gly

65 70 75 80

Ala His Pro Arg Ala Ala Ala Phe Leu His Ala Ala Gln Gly Ser Ser

85 90 95

Met Pro Gly Ala Gly Met Arg Gln Arg Phe Cys Ser Leu Leu Ala Ile

100 105 110

Leu Ala Ser Pro Asn Glu Arg Ala Leu Lys Met Lys Leu Leu Ile Asn

115 120 125

Ser Arg Val Arg Asn Ser Gly Leu Cys Gly Lys Gly Arg Ala Leu His

130 135 140

Phe Val Ser Asn Arg

145

<210> 3048

<211> 232

<212> PRT

<213> Homo sapiens

<400> 3048

```

Met Gly Leu Met Leu Thr Ile Pro Leu Ser Asn Arg Ser Phe Met Pro
  1             5             10             15
Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val Asp Phe Asp
      20             25             30
Asp Ile His Gly Lys Arg Thr Glu Lys Asp Leu Asn Glu Leu Gln Ala
      35             40             45
Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu Glu Glu Leu
      50             55             60
Val Ser Leu Lys Asp Arg Ile Glu Arg Arg Arg Ala Glu Arg Ala Glu
      65             70             75             80
Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln Asn Arg Leu
      85             90             95
Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg Arg Lys Ala
      100            105            110
Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met Met His Phe
      115            120            125
Gly Gly Tyr Ile Gln Lys Gln Ala Gln Thr Glu Arg Lys Ser Gly Lys
      130            135            140
Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu Arg Arg
      145            150            155            160
Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg Glu Lys

```

	165	170	175
Ala Lys Glu Leu Trp Gln Ser Ile Tyr Asn Leu Glu Ala Glu Lys Phe			
	180	185	190
Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu			
	195	200	205
Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg Gly Lys			
	210	215	220
Ala Lys Val Ile Gly Arg Trp Lys			
225	230		

<210> 3049

<211> 496

<212> PRT

<213> Homo sapiens

<400> 3049

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly			
1	5	10	15
Val Gln Ser Gln Glu Gln Leu Leu Gln Ser Ala Thr Glu Val Lys Gln			
	20	25	30
Pro Gly Asp Ser Val Lys Val Ser Cys Arg Ala Ser Glu Asp Thr Phe			
	35	40	45
Thr Ser Ser Tyr Phe His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu			
	50	55	60
Glu Trp Met Gly Ile Ile Asn Pro Gly Gly Gly Arg Thr Asn Tyr Ala			
	65	70	75
Gln Lys Phe Gln Asp Arg Val Thr Met Thr Trp Asp Met Ser Ser Gly			
	85	90	95

Thr Val Tyr Met Glu Leu Asp Ile Leu Thr Ser Gln Asp Thr Ala Val
100 105 110
Tyr Phe Cys Ala Lys Ser Arg Gly Gly Tyr Tyr Asp Ala Glu Asp Asn
115 120 125
Trp Phe Asp Pro Trp Gly Leu Gly Thr Gln Val Ile Val Ser Ser Ala
130 135 140
Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln
145 150 155 160
Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro
165 170 175
Gln Glu Ser Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr
180 185 190
Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr
195 200 205
Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys
210 215 220
Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val
225 230 235 240
Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser
245 250 255
Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu
260 265 270
His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu
275 280 285
Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr
290 295 300
Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu Arg
305 310 315 320
Asp Leu Cys Gly Arg Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala

325 330 335
Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro
340 345 350
Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr
355 360 365
Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala
370 375 380
Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro
385 390 395 400
Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg
405 410 415
Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr
420 425 430
Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp
435 440 445
Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro
450 455 460
Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr
465 470 475 480
His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
485 490 495

<210> 3050

<211> 546

<212> PRT

<213> Homo sapiens

<400> 3050

Met Asp Leu Arg Ala Cys Lys Glu Leu Arg Pro Phe Ser Asn Pro Glu
 1 5 10 15
 Leu Gly Leu Arg Asp Ala Leu Gln Cys Leu Asn Ser Ser Asp Trp Gln
 20 25 30
 Met Lys Glu Lys Gly Leu Val Ser Ile Gln Arg Leu Ala Ala Cys His
 35 40 45
 Ser Glu Val Leu Thr Gly Lys Leu His Asp Val Cys Leu Val Val Thr
 50 55 60
 Gly Glu Val Thr Asn Leu Arg Ser Lys Val Ser His Leu Ala Ile Ser
 65 70 75 80
 Thr Leu Gly Asp Leu Phe Gln Ala Leu Lys Lys Asn Met Asp Gln Glu
 85 90 95
 Ala Glu Glu Ile Ala Arg Cys Leu Leu Gln Lys Met Ala Asp Thr Asn
 100 105 110
 Glu Phe Ile Gln Arg Ala Ala Gly Gln Ser Leu Arg Ala Met Val Glu
 115 120 125
 Asn Val Thr Leu Ala Arg Ser Leu Val Val Leu Thr Ser Ala Gly Val
 130 135 140
 Tyr His Arg Asn Pro Leu Ile Arg Lys Tyr Ala Ala Glu His Leu Ser
 145 150 155 160
 Ala Val Leu Glu Gln Ile Gly Ala Glu Lys Leu Leu Ser Gly Thr Arg
 165 170 175
 Asp Ser Thr Asp Met Leu Val His Asn Leu Val Arg Leu Ala Gln Asp
 180 185 190
 Ser Asn Gln Asp Thr Arg Phe Tyr Gly Arg Lys Met Val Asn Ile Leu
 195 200 205
 Met Ala Asn Thr Lys Phe Asp Ala Phe Leu Lys Gln Ser Leu Pro Ser
 210 215 220
 Tyr Asp Leu Gln Lys Val Met Ala Ala Ile Lys Gln Gln Gly Ile Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Arg Asn Gly Ala Leu Pro Val Pro Ser Gly Asn Ile Arg Gly Val Val
 465 470 475 480
 Cys Arg Leu Ser Arg Ser Leu Gln Glu His Met Gly Ser Arg Leu Leu
 485 490 495
 Asp Phe Ala Ala Ser Gln Pro Lys His Val Leu Lys Thr Leu Gln Glu
 500 505 510
 Leu Leu Asp Ser Glu Ser Leu Gly Gly Ser Arg Lys Ala Thr Asp Arg
 515 520 525
 Gly Val Ala Pro Asp Ser Lys Thr Thr Gly Ser Ser Tyr Pro Phe Gln
 530 535 540
 Leu Asp
 545

<210> 3051

<211> 569

<212> PRT

<213> Homo sapiens

<400> 3051

Met Ser Gln Val Ile Ala Ser Gly Ala Asp Leu Ile Ala Gln Thr Leu
 1 5 10 15
 Lys Asn Gln Gly Val Gln Val Ile Phe Gly Ile Val Gly Ile Pro Val
 20 25 30
 Val Glu Val Ala Glu Ala Cys Val Ala Ala Gly Ile Arg Phe Ile Gly
 35 40 45
 Phe Arg Asn Glu Gln Ser Ala Ala Tyr Ala Ala Ser Ile Tyr Gly Tyr
 50 55 60
 Leu Ser Gly Arg Pro Gly Val Cys Leu Ser Val Gly Gly Pro Gly Val

65 70 75 80
Val His Ala Leu Ala Gly Leu Leu Asn Ser Lys Ile Asn Cys Trp Pro
 85 90 95
Leu Ile Leu Leu Ser Gly Ser Cys Glu Thr Asp Gln Thr Asp Met Gly
 100 105 110
Ala Phe Gln Glu Leu Asp Gln Val Glu Ala Ala Arg Gln Tyr Cys Lys
 115 120 125
Tyr Ser Ala Arg Pro Ala Ser Leu Glu Gln Leu Pro Phe Val Ile Glu
 130 135 140
Lys Ala Phe Arg Thr Ala Leu Tyr Gly Arg Pro Gly Ala Ala Tyr Val
145 150 155 160
Asp Leu Pro Ala Asp Tyr Ile Gln Tyr Pro Ile Thr Asn Lys Lys Val
 165 170 175
Phe Asp Ala Val Gln Val Ala Arg Val Pro Asn Ala Pro Lys Ser Met
 180 185 190
Ala Asp Gln Thr Asn Val His Gln Ala Val Ala Leu Leu Lys His Ala
 195 200 205
Lys Ser Pro Leu Ile Val Ile Gly Lys Gly Ala Ala Tyr Ala Arg Ala
 210 215 220
Glu Asn Glu Ile Arg Ala Leu Val Glu Lys Thr Gln Ala Pro Phe Leu
225 230 235 240
Pro Thr Pro Met Gly Lys Gly Val Ile Ser Asp Ser His Pro Leu Cys
 245 250 255
Val Ser Ala Ala Arg Ser Lys Ala Leu Lys Asp Ala Asp Val Val Leu
 260 265 270
Leu Ile Gly Ala Arg Leu Asn Trp Ile Leu His Tyr Gly His Ser Pro
 275 280 285
Arg Trp Ser Asn Lys Val Arg Phe Ile Gln Ile Asp Ile Ala Pro Glu
 290 295 300

Glu Leu Gly Asn Asn Arg Gln Asp Thr Leu Pro Leu Leu Gly Asp Ile
305 310 315 320
Gln Leu Val Val Ser Gln Ile Thr Gln Ala Leu Thr Gly Lys Leu Ser
325 330 335
Asn Ile Asn Pro Asp Tyr Val Ser Gly Leu Val Asn Lys Val Lys Gln
340 345 350
Asn Val Glu Lys Thr Lys Thr Ala Gly Ser Lys Gly Ser Asp Ser Ala
355 360 365
Ile Leu Asn Tyr Ser Thr Ala Phe Thr Val Ile Lys Ser Leu Leu Pro
370 375 380
Glu Asn Asp Ile Val Tyr Val Ser Glu Gly Ala Asn Thr Met Asp Ile
385 390 395 400
Gly Arg Ser Tyr Phe Asp Val His Glu Pro Arg His Arg Leu Asp Ala
405 410 415
Gly Thr Gly Ala Thr Met Gly Val Gly Met Gly Tyr Ala Ile Gly Ala
420 425 430
Gln Ser Tyr Tyr Gly Asp Ala Lys Arg Val Val Ser Ile Val Gly Asp
435 440 445
Ser Ala Phe Gly Phe Ser Ala Met Glu Leu Glu Thr Ala Ile Arg Ser
450 455 460
Arg Leu Pro Leu Leu Ile Ile Val Ile Asn Asn Asn Gly Ile Tyr His
465 470 475 480
Gly Leu Glu Asp Glu Glu Tyr His Ala Ala Leu Lys Asp Gly Thr Leu
485 490 495
Pro Thr Thr Ser Leu Ser Val Glu Thr Arg Tyr Asp Leu Ile Ser Glu
500 505 510
Ala Cys Gly Gly Lys Gly Trp Phe Val Lys Asn Arg Val Glu Leu Ala
515 520 525
Lys Ala Val Lys Glu Ala Leu Ala Ala Lys Asp Gln Thr Cys Val Val

530 535 540
 Asn Val Met Ile Ala Pro Gly Gly Arg Thr Lys Leu Asp Phe Gly Trp
 545 550 555 560
 Met Gln Lys Thr Gln Lys Ala Arg Leu
 565

<210> 3052

<211> 307

<212> PRT

<213> Homo sapiens

<400> 3052

Met Pro Lys Val Tyr Ser Arg Lys Asp Pro Leu Leu Phe Cys Arg Arg
 1 5 10 15
 Phe Val Gly Gly Ile Leu Ile Ala Arg Lys Ile Phe Trp Pro Leu Glu
 20 25 30
 Asn Val Leu Leu Lys Ser Gly Met Leu Ala Glu Lys Val Met Lys Lys
 35 40 45
 Glu Asn His Ile Leu Ser Val Asp Asp Leu Glu Gln Ala Leu Glu Leu
 50 55 60
 Thr Asp Lys Asp Asp Ile Lys Asp Glu Gln Ser Met Leu Lys Gly Ile
 65 70 75 80
 Ile Arg Phe Gly Asp Glu Thr Ala Lys Glu Val Met Thr Ser Arg Gln
 85 90 95
 Asn Ile Val Asp Leu Asp Ile His Ser Thr Tyr Pro Glu Val Leu Lys
 100 105 110
 Cys Ile Ala Glu Asn Asn Tyr Ser Arg Ile Pro Val Tyr Gln Asp Asn
 115 120 125

Thr Asp Asn Ile Arg Gly Ile Leu Tyr Ile Lys Asp Leu Leu Pro His
130 135 140
Leu Glu Lys Pro Val Ser Phe Arg Trp Gln Ser Leu Ile Arg Pro Pro
145 150 155 160
Tyr Phe Val Pro Glu Thr Lys Lys Ile Asp Asp Leu Leu Arg Glu Phe
165 170 175
Gln Glu Asn Lys Val His Ile Ala Ile Val Val Asp Glu Phe Gly Gly
180 185 190
Thr Ser Gly Ile Val Thr Leu Glu Asp Ile Leu Glu Glu Ile Val Gly
195 200 205
Glu Ile Asn Asp Glu Tyr Asp Glu Glu Glu Lys Phe Tyr Ser Lys Leu
210 215 220
Asn Tyr Asn Thr Phe Ile Phe Glu Gly Lys Thr Leu Leu Thr Asp Phe
225 230 235 240
Cys Lys Ile Leu Asn Val Asp Asp Glu Glu Phe Glu Glu Val Glu Gly
245 250 255
Asp Ala Asp Thr Leu Ala Gly Leu Leu Leu Glu Ile Lys Gly Asp Phe
260 265 270
Pro Ser Ile His Glu Lys Ile Glu Tyr Lys Asn Tyr Ser Phe Glu Val
275 280 285
Leu Gly Val Glu Glu Arg Arg Ile Ser Arg Ile Lys Val Val Val His
290 295 300
Pro Gly Lys
305

<210> 3053

<211> 422

<212> PRT

<213> Homo sapiens

<400> 3053

Met Ala Ser Lys Phe Thr Asp Gly Asp Leu Asn Asn Asp Gly Pro His
1 5 10 15
Asp Glu Gly Leu Arg Ser Ser Gln Gln Asn Pro Lys Val Gln Lys Tyr
20 25 30
Ile Ser Phe Ser Leu Pro Leu Ser Glu Ala Thr Ala His Ile Tyr Pro
35 40 45
Gly Asp Ser Ala Val Ala Asn Lys Gln Pro Ser Pro Gln Leu Ser Ser
50 55 60
Glu Asp Ser Asp Ser Asp Tyr Glu Leu Cys Pro Glu Ile Thr Leu Thr
65 70 75 80
Tyr Thr Glu Glu Phe Ser Asp Asp Asp Leu Glu Tyr Leu Glu Cys Ser
85 90 95
Asp Val Met Thr Asp Tyr Ser Asn Ala Val Trp Gln Arg Asn Leu Leu
100 105 110
Gly Thr Glu His Val Phe Leu Leu Glu Ser Asp Asp Glu Glu Met Glu
115 120 125
Phe Gly Glu His Cys Leu Gly Gly Cys Glu His Phe Leu Ser Gly Met
130 135 140
Gly Cys Gly Ser Arg Val Ser Gly Asp Ala Gly Pro Met Val Ala Thr
145 150 155 160
Ala Gly Phe Cys Gly His His Ser Gln Pro Gln Glu Val Gly Val Arg
165 170 175
Ser Ser Arg Val Ser Lys His Gly Pro Ser Ser Pro Gln Thr Gly Met
180 185 190
Thr Leu Ile Leu Gly Pro His Gln Asp Gly Thr Ser Ser Val Thr Glu
195 200 205

Gln Gly Arg Tyr Lys Leu Pro Thr Ala Pro Glu Ala Ala Glu Asn Asp
 210 215 220
 Tyr Pro Gly Ile Gln Gly Glu Thr Arg Asp Ser His Gln Ala Arg Glu
 225 230 235 240
 Glu Phe Ala Ser Asp Asn Leu Leu Asn Met Asp Glu Ser Val Arg Glu
 245 250 255
 Thr Glu Met Lys Leu Leu Ser Gly Glu Ser Glu Asn Ser Gly Met Ser
 260 265 270
 Gln Cys Trp Glu Thr Ala Ala Asp Lys Arg Val Gly Gly Lys Asp Leu
 275 280 285
 Trp Ser Lys Arg Gly Ser Arg Lys Ser Ala Arg Val Arg Gln Pro Gly
 290 295 300
 Met Lys Gly Asn Pro Lys Lys Pro Asn Ala Asn Leu Arg Glu Ser Thr
 305 310 315 320
 Thr Glu Gly Thr Leu His Leu Cys Ser Ala Lys Glu Ser Ala Glu Pro
 325 330 335
 Pro Leu Thr Gln Ser Asp Lys Arg Glu Thr Ser His Thr Thr Ala Ala
 340 345 350
 Ala Thr Gly Arg Ser Ser His Ala Asp Ala Arg Glu Cys Ala Ile Ser
 355 360 365
 Thr Gln Ala Glu Gln Glu Ala Lys Thr Leu Gln Thr Ser Thr Asp Ser
 370 375 380
 Val Ser Lys Glu Gly Asn Thr Asn Cys Lys Gly Glu Gly Met Gln Val
 385 390 395 400
 Asn Thr Leu Phe Glu Thr Ser Gln Val Pro Asp Trp Ser Asp Pro Pro
 405 410 415
 Gln Val Arg Leu Phe Phe
 420

<210> 3054

<211> 184

<212> PRT

<213> Homo sapiens

<400> 3054

Met Ala Ala Phe Tyr Leu Val Ala Arg Glu Glu Ile Ala Leu Leu Leu

1 5 10 15

Gly Ser Pro Leu Ser Arg Pro Ala Val Ser Thr Phe Cys Phe Leu Phe

20 25 30

Phe Leu Glu Thr Gln Phe Arg Ser Cys Cys Pro Asp Trp Ser Ala Met

35 40 45

Ser Arg Tyr Gln Leu Thr Ser Thr Ser Ala Ser Trp Val Gln Ala Ile

50 55 60

Leu Leu Pro Arg Pro Pro Leu Val Ala Gly Ile Ala Ala Ala His His

65 70 75 80

Gln Ala Arg Leu Ile Phe Val Phe Leu Val Gln Thr Gly Phe Cys Arg

85 90 95

Val Asp Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala

100 105 110

Ser Ala Ser Gln Ser Ala Gly Ile Ala Gly Val Ser His Cys Ala Gln

115 120 125

Pro His Phe Ser Leu Ser Ser Gln Ser Leu Gly His Lys Ile Pro His

130 135 140

His Ser Pro Ala Lys Lys Met Pro Thr Phe Leu Asp Leu Ile Val Ser

145 150 155 160

Leu Lys Gln Asn Lys Thr Lys Phe Asn Ile Tyr Thr Pro Arg Thr Leu

165 170 175

Val Ser Glu Ile Leu Gly Leu Ile

180

<210> 3055

<211> 508

<212> PRT

<213> Homo sapiens

<400> 3055

Met Leu Leu Ser Gln Gly Leu Gly Val Leu Arg Val Ala Trp Asp Ser

1 5 10 15

Arg Ala Cys Ser Pro Ala Leu Arg Ala Leu Leu Arg Lys Leu Gly Gly

20 25 30

Leu Phe Leu Pro Pro Glu Ala Ser Leu Ser Leu Asp Ser Ser Glu Gly

35 40 45

Leu Leu Ala Arg Ala Val Val Gln Ala Ala Ser Ala Pro Leu Gly Leu

50 55 60

Trp Thr Gly Ala Leu Ala Val Leu Arg Ser Leu Trp Ser Arg Trp Gly

65 70 75 80

Cys Ser His Arg Ile Cys Ser Arg Val His Leu Ala Gln Pro Phe Ser

85 90 95

Leu Gln Glu Tyr Ile Val Ser Ala Arg Ser Cys Trp Gly Gly Arg Gln

100 105 110

Thr Leu Glu Gln Leu Leu Gln Pro Ile Val Leu Gly Gln Cys Thr Ala

115 120 125

Val Pro Asp Thr Glu Lys Glu Gln Glu Trp Thr Pro Ile Thr Gly Pro

130 135 140

Leu Leu Ala Leu Lys Glu Glu Asp Gln Leu Leu Val Arg Arg Leu Ser

145	150	155	160
Cys His Val Leu Ser Ala Ser Val Gly Ser Ser Ala Val Met Ser Thr			
	165	170	175
Ala Ile Met Ala Thr Leu Leu Leu Phe Lys His Gln Lys Leu Leu Gly			
	180	185	190
Glu Phe Ser Trp Leu Thr Glu Glu Ile Leu Leu Arg Gly Phe Asp Val			
	195	200	205
Gly Phe Ser Gly Gln Leu Arg Ser Leu Leu Gln His Ser Leu Ser Leu			
210	215	220	
Leu Arg Ala His Val Ala Leu Leu Arg Ile Arg Gln Gly Asp Leu Leu			
225	230	235	240
Val Val Pro Gln Pro Gly Pro Gly Leu Thr His Leu Ala Gln Leu Ser			
	245	250	255
Ala Glu Leu Leu Pro Val Phe Leu Ser Glu Ala Val Gly Ala Cys Ala			
	260	265	270
Val Arg Gly Leu Leu Ala Gly Arg Val Pro Pro Gln Gly Pro Trp Glu			
	275	280	285
Leu Gln Gly Ile Leu Leu Leu Ser Gln Asn Glu Leu Tyr Arg Gln Ile			
290	295	300	
Leu Leu Leu Met His Leu Leu Pro Gln Asp Leu Leu Leu Leu Lys Pro			
305	310	315	320
Cys Gln Ser Ser Tyr Cys Tyr Cys Gln Glu Val Leu Asp Arg Leu Ile			
	325	330	335
Gln Cys Gly Leu Leu Val Ala Glu Glu Thr Pro Gly Ser Arg Pro Ala			
	340	345	350
Cys Asp Thr Gly Arg Gln Arg Leu Ser Arg Lys Leu Leu Trp Lys Pro			
	355	360	365
Ser Gly Asp Phe Thr Asp Ser Asp Ser Asp Asp Phe Gly Glu Ala Asp			
370	375	380	

35	40	45
Lys Leu Pro Thr Pro Thr Pro Gln Val Val Lys Glu Gly Asp Ser Phe		
50	55	60
Pro Asp Thr Leu Ala Lys Asn Gly Gln Glu Ile Ala Pro Ala Gln Ile		
65	70	75
Ser Lys Ser Leu Met Val Asp Asn Tyr Thr Lys Asp Gly Val Pro Gly		
85	90	95
Gln Glu Arg Pro Lys Gly Pro Ser Ala Val Val Pro Ser Thr Ser Thr		
100	105	110
Gly Gly Val Ala Leu Pro Ile Thr Thr Ala Ile Glu Thr Val Asn Ile		
115	120	125
His Gly Asp His Ser Leu Lys Asn Lys Ala Glu Leu Ala Asp Ser Met		
130	135	140
Lys Asn Glu Ala Gly Ile Asp Glu Gly His Val Ile Gly Glu Ser Glu		
145	150	155
Ser Val His Ser Gly Ala Ser Lys His Ser Val Glu Lys Val Thr Glu		
165	170	175
Leu Ala Lys Gly His Leu Leu Pro Gly Val Pro Val Glu Asp Gln Ser		
180	185	190
Leu Pro Gly Glu Ala Arg Ala Leu Glu Gly Tyr Ala Asp Arg Gly Asn		
195	200	205
Phe Pro Ala His Pro Val Asn Glu Glu Lys Glu Thr Lys Glu Gly Ser		
210	215	220
Val Ala Val Gln Ile Pro Asp Leu Leu Glu Asp Lys Ala Gln Lys Leu		
225	230	235
Ser Phe Cys Glu Asp Gln Asn Ala Gln Asp Arg Asn Ser Lys Gly Ser		
245	250	255
Asp Ser Leu Asn Lys Lys Val Asp Leu Thr Leu Leu Ser Pro Lys Ser		
260	265	270

Glu Asn Asp Lys Leu Lys Glu Ile Ser Leu Ala Cys Lys Ile Thr Glu
275 280 285
Leu Glu Ser Val Ser Leu Pro Thr Pro Glu Ile Gln Ser Asp Phe Leu
290 295 300
His Ser Lys Val Glu Ala Pro Pro Ser Glu Val Ala Asp Thr Leu Val
305 310 315 320
Ile Met Thr Ala Ser Lys Gly Val Arg Leu Pro Glu Pro Lys Asp Lys
325 330 335
Ile Leu Glu Thr Pro Gln Lys Met Thr Glu Lys Ser Glu Ser Lys Thr
340 345 350
Pro Gly Glu Gly Lys Lys Glu Asp Lys Ser Arg Met Ala Glu Pro Met
355 360 365
Lys Gly Tyr Met Arg Pro Thr Lys Ser Arg Gly Leu Thr Pro Leu Leu
370 375 380
Pro Lys Ser Thr Ile Gln Glu Gln Glu Arg His Lys Gln Leu Lys Ser
385 390 395 400
Ala Gly Ile Ala Arg Pro Glu Glu Gly Arg Pro Val Val Ser Gly Thr
405 410 415
Gly Asn Asp Ile Thr Thr Pro Pro Asn Lys Glu Leu Pro Pro Ser Pro
420 425 430
Glu Lys Lys Thr Lys Pro Leu Ala Thr Thr Gln Pro Ala Lys Thr Ser
435 440 445
Thr Ser Lys Ala Lys Thr Gln Pro Thr Ser Leu Pro Lys Gln Pro Ala
450 455 460
Pro Thr Thr Ile Gly Gly Leu Asn Lys Lys Pro Met Ser Leu Ala Ser
465 470 475 480
Gly Leu Val Pro Ala Ala Pro Pro Lys Arg Pro Ala Val Ala Ser Ala
485 490 495
Arg Pro Ser Ile Leu Pro Ser Lys Asp Val Lys Pro Lys Pro Ile Ala

500 505 510
Asp Ala Lys Ala Pro Glu Lys Arg Ala Ser Pro Ser Lys Pro Ala Ser
515 520 525
Ala Pro Ala Ser Arg Ser Gly Ser Lys Ser Thr Gln Thr Val Ala Lys
530 535 540
Thr Thr Thr Ala Ala Ala Val Ala Ser Thr Gly Pro Ser Ser Arg Ser
545 550 555 560
Pro Ser Thr Leu Leu Pro Lys Lys Pro Thr Ala Ile Lys Thr Glu Gly
565 570 575
Lys Pro Ala Glu Val Lys Lys Met Thr Ala Lys Ser Val Pro Ala Asp
580 585 590
Leu Ser Arg Pro Lys Ser Thr Ser Thr Ser Ser Met Lys Lys Thr Thr
595 600 605
Thr Leu Ser Gly Thr Ala Pro Ala Ala Gly Val Val Pro Ser Arg Val
610 615 620
Lys Ala Thr Pro Met Pro Ser Arg Pro Ser Thr Thr Pro Phe Ile Asp
625 630 635 640
Lys Lys Pro Thr Ser Ala Lys Pro Ser Ser Thr Thr Pro Arg Leu Ser
645 650 655
Arg Leu Ala Thr Asn Thr Ser Ala Pro Asp Leu Lys Asn Val Arg Ser
660 665 670
Lys Ala Lys Val Glu Lys Lys Thr Glu Ala Ala Ala Thr Thr Arg Lys
675 680 685
Pro Glu Ser Asn Ala Val Thr Lys Thr Ala Gly Pro Ile Ala Ser Ala
690 695 700
Gln Lys Gln Pro Ala Gly Lys Val Gln Ile Val Ser
705 710 715

<210> 3057

<211> 743

<212> PRT

<213> Homo sapiens

<400> 3057

Met Leu His Phe Asn Arg Cys His His Leu Lys Lys Ile Thr Gln Lys

1 5 10 15

Cys Phe Ser Ser Ile His Val Lys Thr Asp Lys His Ala Gln Arg Phe

20 25 30

Leu Ser Arg Thr Phe Ala Leu Ala Glu Leu Arg Lys Ser Trp Tyr Ser

35 40 45

Thr His Ser Leu Val Gly Asp Lys Asn Ile Ile Leu Met Gly Pro Pro

50 55 60

Gly Ala Gly Lys Thr Thr Val Gly Arg Ile Ile Gly Gln Lys Leu Gly

65 70 75 80

Cys Cys Val Ile Asp Val Asp Asp Asp Ile Leu Glu Lys Thr Trp Asn

85 90 95

Met Ser Val Ser Glu Lys Leu Gln Asp Val Gly Asn Glu Gln Phe Leu

100 105 110

Glu Glu Glu Gly Lys Ala Val Leu Asn Phe Ser Ala Ser Gly Ser Val

115 120 125

Ile Ser Leu Thr Gly Ser Asn Pro Met His Asp Ala Ser Met Trp His

130 135 140

Leu Lys Lys Asn Gly Ile Ile Val Tyr Leu Asp Val Pro Leu Leu Asp

145 150 155 160

Leu Ile Cys Arg Leu Lys Leu Met Lys Thr Asp Arg Ile Val Gly Gln

165 170 175

Asn Ser Gly Thr Ser Met Lys Asp Leu Leu Lys Phe Arg Arg Gln Tyr

180	185	190
Tyr Lys Lys Trp Tyr Asp Ala Arg Val Phe Cys Glu Ser Gly Ala Ser		
195	200	205
Pro Glu Glu Val Ala Asp Lys Val Leu Asn Ala Ile Lys Arg Tyr Gln		
210	215	220
Asp Val Asp Ser Glu Thr Phe Ile Ser Thr Arg His Val Trp Pro Glu		
225	230	235
Asp Cys Glu Gln Lys Val Ser Ala Lys Phe Phe Ser Glu Ala Val Ile		
245	250	255
Glu Gly Leu Ala Ser Asp Gly Gly Leu Phe Val Pro Ala Lys Glu Phe		
260	265	270
Pro Lys Leu Ser Cys Gly Glu Trp Lys Ser Leu Val Gly Ala Thr Tyr		
275	280	285
Val Glu Arg Ala Gln Ile Leu Leu Glu Arg Cys Ile His Pro Ala Asp		
290	295	300
Ile Pro Ala Ala Arg Leu Gly Glu Met Ile Glu Thr Ala Tyr Gly Glu		
305	310	315
Asn Phe Ala Cys Ser Lys Ile Ala Pro Val Arg His Leu Ser Gly Asn		
325	330	335
Gln Phe Ile Leu Glu Leu Phe His Gly Pro Thr Gly Ser Phe Lys Asp		
340	345	350
Leu Ser Leu Gln Leu Met Pro His Ile Phe Ala His Cys Ile Pro Pro		
355	360	365
Ser Cys Asn Tyr Met Ile Leu Val Ala Thr Ser Gly Asp Thr Gly Ser		
370	375	380
Ala Val Leu Asn Gly Phe Ser Arg Leu Asn Lys Asn Asp Lys Gln Arg		
385	390	395
Ile Ala Val Val Ala Phe Phe Pro Glu Asn Gly Val Ser Asp Phe Gln		
405	410	415

Lys Ala Gln Ile Ile Gly Ser Gln Arg Glu Asn Gly Trp Ala Val Gly
420 425 430
Val Glu Ser Asp Phe Asp Phe Cys Gln Thr Ala Ile Lys Arg Ile Phe
435 440 445
Asn Asp Ser Asp Phe Thr Gly Phe Leu Thr Val Glu Tyr Gly Thr Ile
450 455 460
Leu Ser Ser Ala Asn Ser Ile Asn Trp Gly Arg Leu Leu Pro Gln Val
465 470 475 480
Val Tyr His Ala Ser Ala Tyr Leu Asp Leu Val Ser Gln Gly Phe Ile
485 490 495
Ser Phe Gly Ser Pro Val Asp Val Cys Ile Pro Thr Gly Asn Phe Gly
500 505 510
Asn Ile Leu Ala Ala Val Tyr Ala Lys Met Met Gly Ile Pro Ile Arg
515 520 525
Lys Phe Ile Cys Ala Ser Asn Gln Asn His Val Leu Thr Asp Phe Ile
530 535 540
Lys Thr Gly His Tyr Asp Leu Arg Glu Arg Lys Leu Ala Gln Thr Phe
545 550 555 560
Ser Pro Ser Ile Asp Ile Leu Lys Ser Ser Asn Leu Glu Arg His Leu
565 570 575
His Leu Met Ala Asn Lys Asp Gly Gln Leu Met Thr Glu Leu Phe Asn
580 585 590
Arg Leu Glu Ser Gln His His Phe Gln Ile Glu Lys Ala Leu Val Glu
595 600 605
Lys Leu Gln Gln Asp Phe Val Ala Asp Trp Cys Ser Glu Gly Glu Cys
610 615 620
Leu Ala Ala Ile Asn Ser Thr Tyr Asn Thr Ser Gly Tyr Ile Leu Asp
625 630 635 640
Pro His Thr Ala Val Ala Lys Val Val Ala Asp Arg Val Gln Asp Lys

645	650	655
Thr Cys Pro Val Ile Ile Ser Ser Thr Ala His Tyr Ser Lys Phe Ala		
660	665	670
Pro Ala Ile Met Gln Ala Leu Lys Ile Lys Glu Ile Asn Glu Thr Ser		
675	680	685
Ser Ser Gln Leu Tyr Leu Leu Gly Ser Tyr Asn Ala Leu Pro Pro Leu		
690	695	700
His Glu Ala Leu Leu Glu Arg Thr Lys Gln Gln Glu Lys Met Glu Tyr		
705	710	715
Gln Val Cys Ala Ala Asp Met Asn Val Leu Lys Ser His Val Glu Gln		
725	730	735
Leu Val Gln Asn Gln Phe Ile		
740		

<210> 3058

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3058

Met Pro Gly Val Phe Ala Lys Arg Pro Ala Arg Val Gly Asp Gly Lys
1 5 10 15
Arg Glu Gly Lys Lys Ser Arg Arg Arg Cys Gly Gln Lys Gly Arg Arg
20 25 30
Glu Arg Ala Gln His Pro Phe Gln Gly Phe Phe Leu Glu Leu Ala Pro
35 40 45
Thr Ser Lys Arg Gly Glu Ala Ser Leu Ala Pro Leu Trp Gln His Ser
50 55 60

Asp Ala Ile Leu Leu Gln Leu Arg Val Arg Thr Ile Ser Pro His Ala
 65 70 75 80
 Arg His Val Gln Asp Tyr Thr Glu Thr Ser Trp Pro Gly His Gly Pro
 85 90 95
 Asn Pro Arg Phe Phe Ile Leu Tyr Glu Gly Arg Ser Phe His Ser Glu
 100 105 110
 Thr Thr Asn Leu Gln Asn
 115

<210> 3059

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3059

Met Pro Leu Val Glu Pro Pro Glu Gly Pro Pro Val Leu Ser Leu Gln
 1 5 10 15
 Gln Leu Glu Ala Trp Asp Leu Asp Asp Ile Leu Gln Ser Leu Ala Gly
 20 25 30
 Gln Glu Asp Asn Gln Gly Asn Arg Ala Pro Gly Thr Val Trp Trp Ala
 35 40 45
 Ala Asp His Arg Gln Val Gln Asp Cys Met Val Pro Ser Ala His Asn
 50 55 60
 Arg Leu Met Glu Gln Leu Ala Leu Leu Cys Thr Thr Gln Ser Lys Ala
 65 70 75 80
 Ser Ala Cys Ala Arg Lys Val Pro Ala Asp Thr Pro Gln Asp Thr Lys
 85 90 95
 Glu Ala Asp Ser Gly Ser Arg Cys Ala Ser Arg Lys Arg Gly Ser Gln

100 105 110
Ala Gly Pro Gly Pro Gln Leu Ala Gln Gly Met Arg Leu Asn Ala Glu
115 120 125
Ser Pro Thr Ile Phe Ile Asp Leu Arg Gln Met Glu Leu Pro Asp His
130 135 140
Leu Ser Pro Glu Ser Ser Ser His Ser Ser Ser Asp Ser Glu Glu Glu
145 150 155 160
Glu Glu Glu Glu Met Ala Ala Leu Gly Asp Ala Glu Gly Ala Ser Pro
165 170 175
Ser Ser Leu Gly Leu Arg Thr Cys Thr Gly Lys Ser Gln Leu Leu Gln
180 185 190
Gln Leu Arg Ala Phe Gln Lys Gly Thr Ala Gln Pro Glu Leu Pro Ala
195 200 205
Ser Lys Gly Pro Ala Gly Gly Arg Ala Gln Ala Leu Glu Asp Thr Ala
210 215 220
Gly Ser Arg Thr Gly Arg Lys Gln His Met Lys Leu Cys Ala Lys Gly
225 230 235 240
Gln Ser Ala Gln Ala Arg Leu Pro Arg Gly Arg Pro Arg Ala Leu Gly
245 250 255
Asp Val Pro Glu Pro Gly Ala Ala Arg Glu Ala Leu Met Pro Pro Leu
260 265 270
Glu Gln Leu
275

<210> 3060

<211> 213

<212> PRT

<213> Homo sapiens

<400> 3060

Met Val Pro Glu Glu Glu Pro Gln Asp Arg Glu Lys Gly Leu Trp Trp
 1 5 10 15
 Phe Gln Leu Lys Val Trp Ser Met Ala Val Val Ser Ile Leu Leu Leu
 20 25 30
 Ser Val Cys Phe Thr Val Ser Ser Val Val Pro His Asn Phe Met Tyr
 35 40 45
 Gly Lys Thr Val Lys Arg Leu Ser Lys Leu Arg Glu Tyr Gln Gln Tyr
 50 55 60
 His Pro Ser Leu Thr Cys Val Met Glu Gly Lys Asp Ile Glu Asp Trp
 65 70 75 80
 Ser Cys Cys Pro Thr Pro Trp Thr Ser Phe Gln Ser Ser Cys Tyr Phe
 85 90 95
 Ile Ser Thr Gly Met Gln Ser Trp Thr Lys Ser Gln Lys Asn Cys Ser
 100 105 110
 Val Met Gly Ala Asp Leu Val Val Ile Asn Thr Arg Glu Glu Gln Asp
 115 120 125
 Phe Ile Ile Gln Asn Leu Lys Arg Asn Ser Ser Tyr Phe Leu Gly Leu
 130 135 140
 Ser Asp Pro Gly Gly Arg Arg His Trp Gln Trp Val Asp Gln Thr Pro
 145 150 155 160
 Tyr Asn Glu Asn Val Thr Phe Trp His Ser Gly Glu Pro Asn Asn Leu
 165 170 175
 Asp Glu Arg Cys Ala Ile Thr Asn Phe Arg Ser Ser Glu Glu Trp Gly
 180 185 190
 Trp Asn Asp Ile His Cys His Val Pro Gln Lys Ser Ile Cys Lys Met
 195 200 205
 Lys Lys Ile Tyr Ile

210

<210> 3061

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3061

Met Ile Ser Phe Ser Gly Leu Glu Arg Met Leu Lys Thr Tyr Ser Ser

1 5 10 15

Thr Ser Ser Phe Ser Asp Ala Lys Ser Gln Lys Asp Thr Ala Ala Leu

20 25 30

Met Asp Glu Asn Asn Leu Lys Leu Asp Leu Leu Glu Ala Asn Ser Tyr

35 40 45

Lys Leu Ser Ser Met Leu Ala Glu Leu Glu Gln Arg Pro Gln Pro Ser

50 55 60

His Pro Cys Ser Asn Ser Ile Phe Arg Trp Arg Glu Lys Glu His Thr

65 70 75 80

His Ser Tyr Val Lys Ile Ser Arg Pro Phe Leu Met Lys Arg Leu Glu

85 90 95

Asn Ile Val Ser Lys Ala Ser Ser Gly Gly Gln Ser Asn Pro Gly Ser

100 105 110

Ser Thr Pro Ala Pro Gly Ala Ala Gln Leu Ser Ser Arg Leu Cys Lys

115 120 125

Ala Leu Tyr Ser Phe Gln Ala Arg Gln Asp Gly Glu Leu Asn Leu Glu

130 135 140

Lys Gly Asp Ile Val Ile Ile His Glu Lys Lys Glu Glu Gly Trp Trp

145 150 155 160

Phe Gly Ser Leu Asn Gly Lys Lys Gly His Phe Ser Ala Ala Tyr Val

165

170

175

Glu Glu Leu Pro Ser Asn Ala Gly Asn Thr Ala Thr Lys Ala

180

185

190

<210> 3062

<211> 574

<212> PRT

<213> Homo sapiens

<400> 3062

Met Val Ala Arg Gly Glu Ile Ala Arg Phe Trp Ser Leu Glu Ser Leu

1

5

10

15

His Leu Val Ser Ser Asp Gly Gly Thr Glu Pro Ser Ala Leu Val Asp

20

25

30

Asp Asn Gly Ser Glu Glu Asp Phe Ser Tyr Glu Asp Leu Cys Gln Ala

35

40

45

Ser Pro Arg Tyr Leu Gln Pro Gly Gly Glu Gln Leu Ala Ile Asn Glu

50

55

60

Leu Ile Ser Asp Gly Asn Val Val Cys Ala Glu Ala Leu Trp Asp His

65

70

75

80

Val Thr Met Asp Asp Gln Glu Leu Gly Phe Lys Ala Gly Asp Val Ile

85

90

95

Gln Val Leu Glu Ala Ser Asn Lys Asp Trp Trp Trp Gly Arg Ser Glu

100

105

110

Asp Lys Glu Ala Trp Phe Pro Ala Ser Phe Val Arg Leu Arg Val Asn

115

120

125

Gln Glu Glu Leu Ser Glu Asn Ser Ser Ser Thr Pro Ser Glu Glu Gln

130 135 140
Asp Glu Glu Ala Ser Gln Ser Arg His Arg His Cys Glu Asn Lys Gln
145 150 155 160
Gln Met Arg Thr Asn Val Ile Arg Glu Ile Met Asp Thr Glu Arg Val
165 170 175
Tyr Ile Lys His Leu Arg Asp Ile Cys Glu Gly Tyr Ile Arg Gln Cys
180 185 190
Arg Lys His Thr Gly Met Phe Thr Val Ala Gln Leu Ala Thr Ile Phe
195 200 205
Gly Asn Ile Glu Asp Ile Tyr Lys Phe Gln Arg Lys Phe Leu Lys Asp
210 215 220
Leu Glu Lys Gln Tyr Asn Lys Glu Glu Pro His Leu Ser Glu Ile Gly
225 230 235 240
Ser Cys Phe Leu Gln Asn Gln Glu Gly Phe Ala Ile Tyr Ser Glu Tyr
245 250 255
Cys Asn Asn His Pro Gly Ala Cys Leu Glu Leu Ala Asn Leu Met Lys
260 265 270
Gln Gly Lys Tyr Arg His Phe Phe Glu Ala Cys Arg Leu Leu Gln Gln
275 280 285
Met Ile Asp Ile Ala Ile Asp Gly Phe Leu Leu Thr Pro Val Gln Lys
290 295 300
Ile Cys Lys Tyr Pro Leu Gln Leu Ala Glu Leu Leu Lys Tyr Thr Thr
305 310 315 320
Gln Glu His Gly Asp Tyr Ser Asn Ile Lys Ala Ala Tyr Glu Ala Met
325 330 335
Lys Asn Val Ala Cys Leu Ile Asn Glu Arg Lys Arg Lys Leu Glu Ser
340 345 350
Ile Asp Lys Ile Ala Arg Trp Gln Val Ser Ile Val Gly Trp Glu Gly
355 360 365

Leu Asp Ile Leu Asp Arg Ser Ser Glu Leu Ile His Ser Gly Glu Leu
370 375 380

Thr Lys Ile Thr Lys Gln Gly Lys Ser Gln Gln Arg Thr Phe Phe Leu
385 390 395 400

Phe Asp His Gln Leu Val Ser Cys Lys Lys Asp Leu Leu Arg Arg Asp
405 410 415

Met Leu Tyr Tyr Lys Gly Arg Leu Asp Met Asp Glu Met Glu Leu Val
420 425 430

Asp Leu Gly Asp Gly Arg Asp Lys Asp Cys Asn Leu Ser Val Lys Asn
435 440 445

Ala Phe Lys Leu Val Ser Arg Thr Thr Asp Glu Val Tyr Leu Phe Cys
450 455 460

Ala Lys Lys Gln Glu Asp Lys Ala Arg Trp Leu Gln Ala Cys Ala Asp
465 470 475 480

Glu Arg Arg Arg Val Gln Glu Asp Lys Glu Met Gly Met Glu Ile Ser
485 490 495

Glu Asn Gln Lys Lys Leu Ala Met Leu Asn Ala Gln Lys Ala Gly His
500 505 510

Gly Lys Ser Lys Gly Tyr Asn Arg Cys Pro Val Ala Pro Pro His Gln
515 520 525

Gly Leu His Pro Ile His Gln Arg His Ile Thr Met Pro Thr Ser Val
530 535 540

Pro Gln Gln Gln Val Phe Gly Leu Ala Glu Pro Lys Arg Lys Ser Ser
545 550 555 560

Leu Phe Trp His Thr Phe Asn Arg Leu Thr Pro Phe Arg Lys
565 570

<210> 3063

<211> 703

<212> PRT

<213> Homo sapiens

<400> 3063

Met Met Ala His Cys Arg Ile Asp Leu Leu Gly Ser Ser Asp Pro Pro

1 5 10 15

Thr Ser Ala Ser Gln Ile Ala Glu Thr Thr Asp Val Ser His His Ala

20 25 30

Gly Leu Ile Glu Phe Leu Ala Leu Ser Asn Ser Ser Ala Leu Ala Ser

35 40 45

Arg Ser Val Glu Ile Thr Glu Ile Lys Leu Pro Val Glu Val Asp Ile

50 55 60

Gly Leu Thr Gln Ala Glu Gly Pro Asp Glu Thr Lys Asn Thr Glu Pro

65 70 75 80

Gln Met Gly Leu Val Ile Glu Pro Pro Gln Cys Gln Phe Ala Gln Gln

85 90 95

His Glu Gln Arg Lys Glu Ala Gly Asn Ile Glu Ser Gly Val Glu Pro

100 105 110

Pro Asp Arg Ile Arg Pro Ile Tyr Ser Gly Lys Phe Phe Asp Arg Thr

115 120 125

Pro Cys Trp Pro Ser Ala Gly Lys Val Ile Pro Val Gly Tyr Arg Val

130 135 140

Ala Ser Cys Leu Thr Glu Lys Leu Pro Arg Leu Ile Thr Pro Pro Glu

145 150 155 160

Ala Lys Lys Tyr Phe Asn Phe Arg Tyr Pro Pro Ala Gly Val Glu Arg

165 170 175

Val Phe Tyr Gly Arg Ala Asn Asp Pro Gln Ile Ala Pro Tyr Leu Thr

180 185 190

His Gly Ile Arg Ser Lys Ile Ser Val Leu Ala Asn Thr Leu Ile Asn
 195 200 205
 Pro Gln Pro Ile Thr Thr Phe Gln Gln Lys Ile Lys Asp Lys Lys Glu
 210 215 220
 Ser Ile Tyr Leu Ser Asn Arg Arg Ala Pro Leu Gly Lys Ser His Asp
 225 230 235 240
 Gln Ala Pro Gly Leu Pro Lys Gly Met Asp Thr Thr Asn Thr Thr Phe
 245 250 255
 Gly Thr Ala Val Ile Lys Glu Tyr Ser Ala Lys Asp Val Val Asn Pro
 260 265 270
 Pro Lys Ser Tyr Glu Glu Val Phe Lys Glu Gly Asn Glu Gly His Asp
 275 280 285
 Leu Tyr Val Val Ser His Asn Asp Tyr Tyr Ala Gly Glu Ala Lys Asn
 290 295 300
 Arg Lys Tyr Asn Pro Ser Ser Phe His Arg Cys Ser Val Tyr Gly Val
 305 310 315 320
 Pro Thr Pro His Phe Asn Asp Gly Arg Ala Met Ala Lys Ser Leu Tyr
 325 330 335
 Trp Leu His Glu Leu Gln Met Lys Arg Gly Ala Lys Phe Val Ser Lys
 340 345 350
 Arg Ala Asp Asp Phe Lys Glu Lys Phe Gln His Lys Leu Gly Arg Val
 355 360 365
 Leu Asp Pro Ile Ala Glu Thr Met Asn Val Pro Pro Asp Cys Thr Phe
 370 375 380
 Gly Ala Cys Leu Arg Pro Glu Glu Tyr Gly Val Gly Asp Leu Ile His
 385 390 395 400
 Asn Arg Leu Pro Asp Glu Tyr Leu Arg Gly Lys Asp Arg Gln Arg Ala
 405 410 415
 Leu Ile Ala Ala Val Arg His His Leu Lys Lys Val Asn Tyr Gln Lys

420 425 430
Phe Asp Thr Leu Leu Ala Ala Phe Arg His Tyr Asp Lys Lys Gly Asp
435 440 445
Gly Met Ile Asp Lys Asp Glu Leu Gln Glu Ala Cys Asp Gln Ala Asn
450 455 460
Leu Ser Leu Asp Asp Lys Leu Leu Asp Gln Leu Phe Asp Tyr Cys Asp
465 470 475 480
Val Asp Asn Asp Gly Phe Ile Asn Tyr Leu Glu Phe Ala Asn Phe Leu
485 490 495
Asn Cys Lys Asp Lys Met Leu Leu Lys Glu Tyr Glu Glu Arg Val Ile
500 505 510
Ile Lys Gly Arg Lys Pro Asp Cys Val Asn Pro Thr Glu Ala Asn Val
515 520 525
Glu Glu Pro Glu Gln Thr Leu Leu Ile Lys Pro Glu Asp Ile Val Leu
530 535 540
Lys Glu Ala Gly Ser Thr Glu Lys Thr Leu Trp Thr Leu Leu Arg Pro
545 550 555 560
Ser Asp Lys Val Ser Asn Tyr Tyr Lys Thr Thr Ser Ser Glu Ile Asn
565 570 575
Ala Ile Val Gly Ala Ile Pro Ser Thr Cys Tyr Pro Ile Cys Gly Val
580 585 590
Pro Thr Ile Arg Ser Asp Ile Pro Ala Pro Arg Ile Arg Arg Thr Ser
595 600 605
Asp Arg Thr Asn Tyr Gly Glu Glu Gly Ser Ala Tyr Ser Leu Leu Tyr
610 615 620
Pro Thr Ile Phe Ala Arg Lys Gly Val Phe Glu Arg Asp Phe Phe Lys
625 630 635 640
Thr Arg Ser Lys Glu Glu Ile Ala Glu Ile Leu Cys Asn Ile Gly Val
645 650 655

Lys Leu Ser Asp Glu Glu Phe Glu Asn Val Trp Asn Leu Ala Ser Lys

660

665

670

Lys His His Arg Gly Glu Val Cys Val Glu Asn Ile Arg Asn Val Leu

675

680

685

Asp Glu Leu Arg His Ala Asp Arg Ile Lys Cys Lys Thr Leu Met

690

695

700

<210> 3064

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3064

Met Met Met Glu Arg Asp Val Phe Ile Leu Phe Tyr Phe Phe Arg Gln

1

5

10

15

Ser Leu Ala Leu Ser Pro Ser Leu Glu Cys Asn Gly Thr Ile Ser Ala

20

25

30

His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asn Ser Pro Ala Ser Ala

35

40

45

Ser His Val Ala Gly Ile Thr Gly Thr His His His Ala Arg Leu Ile

50

55

60

Phe Leu Phe Leu Val Glu Met Gly Phe His His Val Gly Gln Ala Gly

65

70

75

80

Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Ala Leu Ala Ser Gln Ser

85

90

95

Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro Leu Phe Tyr Phe

100

105

110

Leu Glu Met Val Leu Leu Cys His Pro Gly Trp Ser Ala Val Met Gln

115 120 125

Ser

<210> 3065

<211> 274

<212> PRT

<213> Homo sapiens

<400> 3065

Met Cys Met Gly Gly Leu His Ala Gly Met Cys Val Ser Leu Cys Val

1 5 10 15

Cys Val Cys Ala Cys Val Cys Val His Val Gly Ile Cys Met His Ala

20 25 30

Cys Val Cys Leu Cys Met Cys Met Cys Val Cys Ala Cys Gly Asn Leu

35 40 45

His Ala Phe Leu Cys Val Phe Val Ser Val Tyr Thr Cys Met Gly Val

50 55 60

Phe Glu Cys Val His Leu Cys Val His Leu Phe Val Cys Ile Cys Val

65 70 75 80

Gly Ala Ser Ala Trp Ile Leu Val Cys Ile Cys Val Cys Ala His Val

85 90 95

Cys Thr Cys Val His Ser Phe Val Tyr Val Cys Gly Cys Val His Val

100 105 110

Gly Met Arg Val Tyr Leu Cys Glu His Val Arg Met Cys Val Ser Leu

115 120 125

Cys Ala Cys Leu Cys Val Cys Ile His Val Arg Val Cys Ile Tyr Ala

130 135 140

Cys Ile Leu Val Cys Ala Leu Val Cys Met His Ile Cys Leu Glu Asp
 145 150 155 160
 Met Ala Leu Pro Gln Gly Leu Gly Thr Leu Pro Cys Leu Pro Cys Pro
 165 170 175
 Ala Leu Pro Cys Pro Glu Val Trp Gly Thr Trp Pro Cys Ser Gly Val
 180 185 190
 Trp Gly Thr Leu Pro Trp Ala Pro Ala Cys Pro Gly Pro Leu Pro Ala
 195 200 205
 Leu Ala Ala His Leu Ala Leu Gly Pro Ala Glu Trp Asn Leu Gln Pro
 210 215 220
 Leu His Gly Leu Asp His Gly Pro His Gly His Glu Asp Val Leu Val
 225 230 235 240
 Asp Gln Gly Pro Glu Ala Leu Ala Leu Leu Leu Arg Val Ala Gly Ala
 245 250 255
 Val Asp Asp Pro His Leu Leu Asp Glu Asp Glu Thr Arg Arg Thr Arg
 260 265 270
 Glu Val

<210> 3066

<211> 238

<212> PRT

<213> Homo sapiens

<400> 3066

Met Ala Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 1 5 10 15
 Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Leu Gln Ser Cys

20	25	30
Ala Thr Ala Ser Arg Leu Leu Phe Phe Phe Leu Leu Ser Ser Val Phe		
35	40	45
Phe Tyr Pro Thr Ser Leu Pro Leu Ser Ser Leu Leu Pro Pro Phe Pro		
50	55	60
Phe Ser Ser Leu Leu Pro Pro Ser Cys Phe Ser Pro Ser Phe Pro Leu		
65	70	75
Pro Ser Phe Leu Phe Leu Pro Phe Pro Val Cys Leu Pro Pro Leu Phe		
85	90	95
Leu Ser Cys Leu Pro Val Ser Phe Ala Leu Phe Leu Pro Phe Ser Arg		
100	105	110
Pro Ser Leu Pro Ala Phe Leu Phe Thr Ser Phe Pro Ser His Cys Phe		
115	120	125
Leu Ala Phe Pro Ala Phe Pro Cys Leu Ser Leu Ser Phe Leu Pro Phe		
130	135	140
Pro Ala Ser Leu Phe Pro Ala Phe Pro His Leu Ser Leu Ser Cys Leu		
145	150	155
Ser Leu Ser Leu Pro Phe Phe Pro Ser Pro Pro Thr Leu Pro Pro Ser		
165	170	175
Ser Leu Leu Phe Phe Pro Leu Leu Ser Leu Cys Leu Ser Phe Phe Phe		
180	185	190
Pro Ser Leu Phe Leu Phe Ser Pro Cys Val Phe Leu Ala Leu Val Phe		
195	200	205
Pro Phe Ser Pro Leu Cys Thr Glu Lys Met Thr Val Pro Gly Cys Gly		
210	215	220
Trp Ala Gly Val Thr Arg Pro Arg Glu Arg Gly His Pro Gly		
225	230	235

<210> 3067

<211> 233

<212> PRT

<213> Homo sapiens

<400> 3067

Met Asn Glu Gly Thr Val Gly Gly Lys Pro Arg Glu Asn Phe Gly Tyr

1 5 10 15

Ser Asp Glu Gly Ser Gly Glu Cys Gly Glu Arg Gln Ala Arg Ala Arg

20 25 30

Cys Ser Arg Leu Phe Pro Val Pro Ala Ser Arg Leu Ala His Ala Ser

35 40 45

Leu Pro Pro Glu Ile Val Gln Arg Arg Arg Asp Pro Gly Gly Ala Leu

50 55 60

Arg Met Pro Phe Arg Lys Leu Leu Leu Pro Arg Ala Trp Gly Leu Trp

65 70 75 80

Cys Ser Gly Met Gly Cys Asp Ala Gly Leu Gln Gln Gly Leu Arg Pro

85 90 95

Leu His Val Cys His Lys His Phe Leu Val Leu Arg Ser Arg Pro Gly

100 105 110

Cys Ser Leu Pro Arg Ala Val Leu Ser Gln His Pro Gln Glu Gly Arg

115 120 125

Pro Gln Ala Glu Lys Pro Ala Gly Ala Tyr Cys Pro Glu Trp Ala Ser

130 135 140

Asn Pro Pro Leu Leu Gly Phe Trp Gly Gln Gly Pro Val His Lys Pro

145 150 155 160

Leu Gln Val Pro Pro Ser Gly Leu Pro Ser Pro Gln Gly Trp Pro Arg

165 170 175

Glu Arg Leu Ser Glu Asp Cys Leu Leu His Pro Gly Gly Ser Ala Pro

180 185 190
 Arg Ala Gly Pro Pro Gln Gly Gln Gly Val Pro Gln Ala Gly Pro Gln
 195 200 205
 Gly Leu Ser Arg Gly Thr Ala Gly Gly Ser Pro Leu Gly Arg Glu Glu
 210 215 220
 Asn Leu Ala Pro Gln Leu Ala Ala Ser
 225 230

<210> 3068

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3068

Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro Thr
 1 5 10 15
 Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile Leu
 20 25 30
 Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe Lys
 35 40 45
 Leu Trp Phe Thr Leu Asp His Pro Pro Lys Gly Ile Leu Pro Ile Ser
 50 55 60
 Gly His Pro Thr Ile Pro Ser Ser Ser Lys Ser Lys Pro Cys Pro Phe
 65 70 75 80
 Val Asn Ser Gly Phe Ile Glu Ile Asn Leu Ala Ser His Cys Gln Leu
 85 90 95
 Gly Ser Leu Ser Ala Gln Thr Gln
 100

<210> 3069

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3069

Met Val Ser Asn Ser Ile Ser Tyr His Leu Pro Val Ser Leu Gln Asp

1 5 10 15

Pro Cys Ser Gln Ile Pro Ser Arg Ser Ile Cys Leu Cys His Ser Arg

20 25 30

Thr His Gly Leu Lys Phe Cys Phe Leu Pro Ser Ala Cys Ala Ile Ala

35 40 45

Gly Pro Met Val Thr Asn Ser Ile Ser Tyr His Leu Pro Val Ser Leu

50 55 60

Gln Asp Pro Cys Ser Gln Ile Pro Ser Arg Ser Ile Cys Leu Cys His

65 70 75 80

Ser Arg Thr His Gly His Lys Phe His Leu Leu Pro Ser Ala Cys Ala

85 90 95

Ile Ala Gly Pro Met Val Thr Asn Ser Ile Ser Tyr His Leu Pro Val

100 105 110

Ser Leu Gln Asp Pro Cys Ser Gln Ile Pro Ser Arg Thr Ile Cys Leu

115 120 125

Cys His Ser Arg Thr His Gly His Lys Phe His Leu Leu Pro Ser Ala

130 135 140

Cys Val Ile Ala Gly Ser Met Val Thr Asn Ser Ile Ser Tyr His Leu

145 150 155 160

Pro Val Pro

<210> 3070

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3070

Met Asn Ser Cys Gln Glu His Cys Leu His Lys Gly Arg Ser Leu Pro

1 5 10 15

Asp Leu Arg Thr Gln Gln Asn Phe Tyr Phe Val Lys Asn Leu Ile Phe

20 25 30

Ser Leu His His Ser Phe Gln Val Asn Ile Gln Gln Ser Ala Phe Gln

35 40 45

Phe Arg Glu Met Phe Thr Val Val Trp Phe Ser Leu Phe Leu Gly Thr

50 55 60

Arg Leu Pro His Leu Glu His Ile Thr Ser Ala Lys Leu Ser Ile Pro

65 70 75 80

Lys Gln Tyr Arg Phe Leu Leu Leu Ser Arg Ser Ser Ser Gly Cys Gly

85 90 95

Arg Gln Thr Phe Gln Asn Cys Leu Pro Ser Phe Pro Pro Pro Glu Met

100 105 110

His Ala Phe Val

115

<210> 3071

<211> 282

<212> PRT

<213> Homo sapiens

<400> 3071

Met Gly Arg Arg Leu His Ser Ala His Asp Pro Gly Leu Ser Lys Thr

1 5 10 15

Ser Thr Ala Glu Met Glu His Gly Leu His Glu Ala Arg Thr Val Arg

20 25 30

Thr Ser Gln Asp Ser Ser Asn Val Arg Lys Pro Leu Glu Thr Gly His

35 40 45

Arg Cys Ser Ser Ser Ser Ser Leu Pro Val Ile His Asp Pro Ser Val

50 55 60

Phe Leu Leu Gly Pro Gln Leu Tyr Leu Pro Gln Pro Gln Phe Leu Ser

65 70 75 80

Pro Asp Val Leu Met Pro Thr Met Ala Gly Glu Pro Asn Arg Leu Pro

85 90 95

Gly Thr Ser Arg Ser Val Gln Gln Phe Leu Ala Met Cys Asp Arg Gly

100 105 110

Glu Thr Ser Gln Gly Ala Lys Tyr Thr Gly Arg Thr Leu Asn Tyr Gln

115 120 125

Ser Leu Pro His Arg Ser Arg Thr Asp Asn Ser Trp Ala Pro Trp Ser

130 135 140

Glu Thr Asn Gln His Ile Gly Thr Arg Phe Leu Thr Thr Pro Gly Cys

145 150 155 160

Asn Pro Gln Leu Thr Tyr Thr Ala Thr Leu Pro Glu Arg Ser Lys Gly

165 170 175

Leu Gln Val Pro His Thr Gln Ser Trp Ser Asp Leu Phe His Ser Pro

180 185 190

Ser His Pro Pro Ile Val His Pro Val Tyr Pro Pro Ser Ser Ser Leu

195	200	205
His Val Pro Leu Arg Ser Ala Trp Asn Ser Asp Pro Val Pro Gly Ser		
210	215	220
Arg Thr Pro Gly Pro Arg Arg Val Asp Met Pro Pro Asp Asp Asp Trp		
225	230	235
Arg Gln Ser Ser Tyr Ala Ser His Ser Gly His Arg Arg Thr Val Gly		
245	250	255
Glu Gly Phe Leu Phe Val Leu Ser Asp Ala Pro Arg Arg Glu Gln Ile		
260	265	270
Arg Ala Arg Val Leu Gln His Ser Gln Trp		
275	280	

<210> 3072

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3072

Met Asp Gly Leu Pro Ser His Arg Pro Val Ile Glu Leu Cys Ile Pro
1 5 10 15
Ser Ser Leu Asp Pro Thr Leu Ala Pro Pro Gly Cys His Val Val Ser
20 25 30
Leu Phe Thr Gln Tyr Thr Pro Tyr Thr Leu Ala Gly Gly Lys Ala Trp
35 40 45
Asp Glu Gln Glu Arg Asp Ala Tyr Ala Asp Arg Val Phe Asp Cys Ile
50 55 60
Glu Val Tyr Ala Pro Gly Phe Lys Asp Ser Val Val Gly Arg Asp Ile
65 70 75 80

Leu Thr Pro Pro Asp Leu Glu Arg Ile Phe Gly Leu Pro Gly Gly Lys

85

90

95

Ile Ser Trp Lys Glu Lys Asn Ile Cys

100

105

<210> 3073

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3073

Met Lys Arg Pro Ser Pro Gly Leu Pro Leu Ser Pro Phe Pro Ser Pro

1

5

10

15

Leu His Ser Trp Ser Thr Ser Trp Lys Asn Thr Ser Trp Gly Ala Ala

20

25

30

Phe Pro Ser Lys Arg Trp Gly Leu His Ser Gln Pro Ala Ile Arg Lys

35

40

45

Leu Asn Arg Ser Ser Pro Arg Ser Arg Val Ser Thr Gly Arg Ala Arg

50

55

60

Val Asp Gln Leu Cys Ser Ser Gly Thr Asn Pro Pro Tyr Met Pro Gly

65

70

75

80

Leu Glu Ala Phe Gly Phe Val Asp Ala Lys Ser Gly Trp Ser Arg Leu

85

90

95

Leu His Pro Asp Ser Pro Ala Ser Pro Phe

100

105

<210> 3074

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3074

Met Ser Ser Arg Glu Leu Lys Arg Arg Phe Glu Val Phe Gly Glu Ile

1 5 10 15

Glu Glu Cys Glu Val Leu Thr Arg Asn Arg Arg Gly Glu Lys Tyr Gly

20 25 30

Phe Ile Thr Tyr Arg Cys Ser Glu His Ala Ala Leu Ser Leu Thr Lys

35 40 45

Gly Ala Ala Leu Arg Lys Arg Asn Glu Pro Ser Phe Gln Leu Ser Tyr

50 55 60

Gly Gly Leu Arg His Phe Cys Trp Pro Arg Tyr Thr Asp Tyr Gly Lys

65 70 75 80

Pro Leu Lys Pro Ser His Ser Leu Val Arg Leu Lys Ala Trp Glu Ala

85 90 95

Val Pro Ser Leu Asn Lys Thr Gln Ser

100 105

<210> 3075

<211> 187

<212> PRT

<213> Homo sapiens

<400> 3075

Met Ala Tyr Glu Val Tyr Tyr Gly Leu Thr Glu Glu Glu Gly Ala Val

1 5 10 15

Pro Ala Glu His Gln Val Ala Met Ala Ala Ala Arg Ala Leu Gly Asp
20 25 30
Val Thr Val Leu Gly Ser Leu Leu Leu Gln His Leu Leu His Phe Ser
35 40 45
Thr Pro Gly Leu Val Leu Arg Ser Leu Gly Ala Leu Thr Gly Pro Gln
50 55 60
Leu Leu Ser Leu Ala Gln Ser Pro Ala Gly Ser His Val Leu Asp Ala
65 70 75 80
Ile Leu Thr Ser Pro Ser Val Thr Arg Lys Leu Arg Arg Arg Val Leu
85 90 95
Gln Asn Leu Lys Gly Gln Tyr Val Ala Leu Ala Cys Ser Arg His Gly
100 105 110
Ser Arg Val Leu Asp Ala Ile Trp Ser Gly Ala Ala Leu Arg Ala Arg
115 120 125
Lys Glu Ile Ala Ala Glu Leu Gly Glu Gln Asn Gln Glu Leu Ile Arg
130 135 140
Asp Pro Phe Gly His His Val Ala Arg Asn Val Ala Leu Thr Thr Phe
145 150 155 160
Leu Lys Arg Arg Glu Ala Trp Glu Gln Gln Gln Gly Ala Val Ala Lys
165 170 175
Arg Arg Arg Ala Leu Asn Ser Ile Leu Glu Asp
180 185

<210> 3076

<211> 565

<212> PRT

<213> Homo sapiens

<400> 3076

Met	Asp	Val	Val	Phe	Leu	Ile	Asp	Asn	Ser	Arg	Asn	Ile	Ala	Lys	Asp
1				5					10					15	
Glu	Phe	Lys	Ala	Val	Lys	Ala	Leu	Val	Ser	Ser	Val	Ile	Asp	Asn	Phe
			20					25					30		
Asn	Ile	Ala	Ser	Asp	Pro	Leu	Ile	Ser	Asp	Ser	Gly	Asp	Arg	Ile	Ala
		35					40					45			
Leu	Leu	Ser	Tyr	Ser	Pro	Trp	Glu	Ser	Ser	Arg	Arg	Lys	Met	Gly	Thr
	50					55					60				
Val	Lys	Thr	Glu	Phe	Asp	Phe	Ile	Thr	Tyr	Asp	Asn	Gln	Leu	Leu	Met
	65				70					75				80	
Lys	Asn	His	Ile	Gln	Thr	Ser	Phe	Gln	Gln	Leu	Asn	Gly	Glu	Ala	Thr
			85					90					95		
Ile	Gly	Arg	Ala	Leu	Leu	Trp	Thr	Thr	Glu	Asn	Leu	Phe	Pro	Glu	Thr
		100					105					110			
Pro	Tyr	Leu	Arg	Lys	His	Lys	Val	Ile	Phe	Val	Val	Ser	Ala	Gly	Glu
		115				120						125			
Asn	Tyr	Glu	Arg	Lys	Glu	Phe	Val	Lys	Met	Met	Ala	Leu	Arg	Ala	Lys
		130				135					140				
Cys	Gln	Gly	Tyr	Val	Ile	Phe	Val	Ile	Ser	Leu	Gly	Ser	Thr	Arg	Lys
	145				150					155				160	
Asp	Asp	Met	Glu	Glu	Leu	Ala	Ser	Tyr	Pro	Leu	Asp	Gln	His	Leu	Ile
			165						170				175		
Gln	Leu	Gly	Arg	Ile	His	Lys	Pro	Asp	Leu	Asn	Tyr	Ile	Ala	Lys	Phe
		180						185					190		
Leu	Lys	Pro	Phe	Leu	Tyr	Ser	Val	Arg	Arg	Gly	Phe	Asn	Gln	Tyr	Pro
		195						200					205		
Pro	Pro	Met	Leu	Glu	Asp	Ala	Cys	Arg	Leu	Ile	Asn	Leu	Gly	Gly	Glu
	210						215					220			

Asn Ile Arg Asn Asp Gly Phe Gln Phe Val Thr Glu Leu Gln Glu Asp
225 230 235 240
Phe Leu Gly Asp Asn Gly Phe Ile Gly Gln Glu Leu Asn Ser Gly Arg
245 250 255
Glu Ser Pro Phe Val Lys Thr Glu Asp Asn Gly Ser Asp Tyr Leu Val
260 265 270
Tyr Leu Pro Ser Gln Met Phe Glu Pro Gln Lys Leu Met Ile Asn Tyr
275 280 285
Glu Lys Asp Gln Lys Ser Ala Glu Ile Ala Ser Leu Thr Ser Gly His
290 295 300
Glu Asn Tyr Gly Arg Lys Glu Glu Pro Asp His Thr Tyr Glu Pro Gly
305 310 315 320
Asp Val Ser Leu Gln Glu Tyr Tyr Met Asp Val Ala Phe Leu Ile Asp
325 330 335
Ala Ser Gln Arg Val Gly Ser Asp Glu Phe Lys Glu Val Lys Ala Phe
340 345 350
Ile Thr Ser Val Leu Asp Tyr Phe His Ile Ala Pro Thr Pro Leu Thr
355 360 365
Ser Thr Leu Gly Asp Arg Val Ala Val Leu Ser Tyr Ser Pro Pro Gly
370 375 380
Tyr Met Pro Asn Thr Glu Glu Cys Pro Val Tyr Leu Glu Phe Asp Leu
385 390 395 400
Val Thr Tyr Asn Ser Ile His Gln Met Lys His His Leu Gln Asp Ser
405 410 415
Gln Gln Leu Asn Gly Asp Val Phe Ile Gly His Ala Leu Gln Trp Thr
420 425 430
Ile Asp Asn Val Phe Val Gly Thr Pro Asn Leu Arg Lys Asn Lys Val
435 440 445
Ile Phe Val Ile Ser Ala Gly Glu Thr Asn Ser Leu Asp Lys Asp Val

450 455 460
 Leu Arg Asn Val Ser Leu Arg Ala Lys Cys Gln Gly Tyr Ser Ile Phe
 465 470 475 480
 Val Phe Ser Phe Gly Pro Lys His Asn Asp Lys Glu Leu Glu Glu Leu
 485 490 495
 Ala Ser His Pro Leu Asp His His Leu Val Gln Leu Gly Arg Thr His
 500 505 510
 Lys Pro Asp Trp Asn Tyr Ile Ile Lys Phe Val Lys Pro Phe Val His
 515 520 525
 Leu Ile Arg Arg Ala Ile Asn Lys Tyr Pro Thr Glu Asp Met Lys Ala
 530 535 540
 Thr Cys Val Asn Met Thr Ser Pro Asn Pro Glu Asn Gly Gly Thr Glu
 545 550 555 560
 Asn Thr Val Leu Trp
 565

<210> 3077

<211> 304

<212> PRT

<213> Homo sapiens

<400> 3077

Met Gly Gln Cys Val Thr Lys Cys Lys Asn Pro Ser Ser Thr Leu Gly
 1 5 10 15
 Ser Lys Asn Gly Asp Arg Glu Pro Ser Asn Lys Ser His Ser Arg Arg
 20 25 30
 Gly Ala Gly His Arg Glu Glu Gln Val Pro Pro Cys Gly Lys Pro Gly
 35 40 45

Gly Asp Ile Leu Val Asn Gly Thr Lys Lys Ala Glu Ala Ala Thr Glu
50 55 60
Ala Cys Gln Leu Pro Thr Ser Ser Gly Asp Ala Gly Arg Glu Ser Lys
65 70 75 80
Ser Asn Ala Glu Glu Ser Ser Leu Gln Arg Leu Glu Glu Leu Phe Arg
85 90 95
Arg Tyr Lys Asp Glu Arg Glu Asp Ala Ile Leu Glu Glu Gly Met Glu
100 105 110
Arg Phe Cys Asn Asp Leu Cys Val Asp Pro Thr Glu Phe Arg Val Leu
115 120 125
Leu Leu Ala Trp Lys Phe Gln Ala Ala Thr Met Cys Lys Phe Thr Arg
130 135 140
Lys Glu Phe Phe Asp Gly Cys Lys Ala Ile Ser Ala Asp Ser Ile Asp
145 150 155 160
Gly Ile Cys Ala Arg Phe Pro Ser Leu Leu Thr Glu Ala Lys Gln Glu
165 170 175
Asp Lys Phe Lys Asp Leu Tyr Arg Phe Thr Phe Gln Phe Gly Leu Asp
180 185 190
Ser Glu Glu Gly Gln Arg Ser Leu His Arg Glu Ile Ala Ile Ala Leu
195 200 205
Trp Lys Leu Val Phe Thr Gln Asn Asn Pro Pro Val Leu Asp Gln Trp
210 215 220
Leu Asn Phe Leu Thr Glu Asn Pro Ser Gly Ile Lys Gly Ile Ser Arg
225 230 235 240
Asp Thr Trp Asn Met Phe Leu Asn Phe Thr Gln Val Ile Gly Pro Asp
245 250 255
Leu Ser Asn Tyr Ser Glu Asp Glu Ala Trp Pro Ser Leu Phe Asp Thr
260 265 270
Phe Val Glu Trp Glu Met Glu Arg Arg Lys Arg Glu Gly Glu Gly Arg

275 280 285
Gly Ala Leu Ser Ser Gly Pro Glu Gly Leu Cys Pro Glu Glu Gln Thr
290 295 300

<210> 3078

<211> 159

<212> PRT

<213> Homo sapiens

<400> 3078

Met Ser Arg Thr Thr Ala Gly Pro Thr Leu Ser Arg Glu Gln Gly Ala
1 5 10 15
Ala Leu Ser Cys Leu Leu Leu Glu Pro Ala Lys Asp Glu Ala Met Pro
20 25 30
Gln Leu Pro Leu Arg Ser Thr Gln Cys Trp Pro His Arg Pro Thr Gln
35 40 45
Gly Ala Glu Leu Ser Pro Gly Ala His Gly Ala Gly Gln Arg Gln Arg
50 55 60
Pro Leu Gly Arg Ser Ala Gln Ser Trp Val Gly Pro Ala Ser Gly Thr
65 70 75 80
Leu Arg Pro Pro His Pro Pro Asp Leu Leu Ser Arg Arg Asn Pro Thr
85 90 95
Arg Ala Ala Pro Ser Ala Pro Pro Ser Arg Asp Lys Leu Thr Ser Asp
100 105 110
Asn Asp Phe Ile Leu Thr Tyr Leu Ile Thr Ala Ala Pro Pro Pro Ser
115 120 125
Ser Leu Ser Arg Glu Gln Thr Leu Trp Pro Ala Pro Asp Ser Ala Pro
130 135 140

Thr Pro Ser Ala Asn Leu Lys Gly Asn Lys Tyr Lys Leu Tyr Lys
145 150 155

<210> 3079

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3079

Met Phe Pro Phe Cys Ile Ser His Thr Arg Asp Pro Lys Val Cys Leu
1 5 10 15
Pro His Phe Asn Trp Gly Gly Leu Asp Lys Val Glu Phe Gln Leu Gln
20 25 30
Glu Thr Gly Cys Asp Met Gly Glu Val Pro Lys Ala His Arg Leu Lys
35 40 45
Leu Arg Trp Leu Phe Pro Val Ser Leu Cys Arg Ala Pro Leu Leu Ser
50 55 60
Thr Ala His Leu Ala Leu Leu Leu Pro Ser Cys Leu Leu Cys Ser Ser
65 70 75 80
Cys Tyr Tyr Phe Pro Phe Leu Ser Leu Leu Pro Pro Trp Pro Asn Leu
85 90 95
Phe His Arg Asn Ile Thr Gly Pro Ala Arg His Ser Gly Ser Pro Leu
100 105 110

<210> 3080

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3080

Met Gly Glu Trp Ala Phe Leu Gly Ser Leu Leu Asp Ala Val Gln Leu
1 5 10 15
Gln Ser Pro Leu Val Gly Arg Leu Trp Leu Val Val Met Leu Ile Phe
20 25 30
Arg Ile Leu Val Leu Ala Thr Val Gly Gly Ala Val Phe Glu Asp Glu
35 40 45
Gln Glu Glu Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Arg Gln Thr
50 55 60
Cys Tyr Asp Arg Ala Phe Pro Val Ser His Tyr Arg Phe Trp Leu Phe
65 70 75 80
His Ile Leu Leu Leu Ser Ala Pro Pro Val Leu Phe Val Val Tyr Ser
85 90 95
Met His Arg Ala Gly Lys Glu Ala Gly Gly Ala Glu Ala Ala Ala Gln
100 105 110
Cys Ala Pro Gly Leu Pro Glu Ala Gln Cys Ala Pro Cys Ala Leu Arg
115 120 125
Ala Arg Arg Ala Arg Arg Cys Tyr Leu Leu Ser Val Ala Leu Arg Leu
130 135 140
Leu Ala Glu Leu Thr Phe Leu Gly Gly Gln Ala Leu Leu Tyr Gly Phe
145 150 155 160
Arg Val Ala Pro His Phe Ala Cys Ala Gly Pro Pro Cys Pro His Thr
165 170 175
Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Val Leu
180 185 190
Phe Tyr Phe Ala Val Gly Leu Leu Ser Ala Leu Leu Ser Val Ala Glu
195 200 205

Leu Gly His Leu Leu Trp Lys Gly Arg Pro Arg Ala Gly Glu Arg Asp
 210 215 220

Asn Arg Cys Asn Arg Ala His Glu Glu Ala Gln Lys Leu Leu Pro Pro
 225 230 235 240

Pro Pro Pro Pro Pro Ile Val Val Thr Trp Glu Glu Asn Arg His Leu
 245 250 255

Gln Gly Glu Gly Ser Pro Gly Ser Pro His Pro Lys Thr Glu Leu Asp
 260 265 270

Ala Pro Arg Phe Arg Arg Glu Ser Thr Ser Pro Ala Gly Trp His Cys
 275 280 285

Ser Leu Pro Phe His Gly Thr
 290 295

<210> 3081

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3081

Met Phe Ser Ser Phe Arg Phe Leu Tyr Lys Ala Lys Met Ser Phe Pro
 1 5 10 15

Ser Ile Thr Lys Ser Ser Tyr Gly Tyr Ile Asn Pro Lys Ser Pro Leu
 20 25 30

Leu Leu Lys Gly Tyr Asp Gln Val Ile Thr Cys Thr Leu Leu Pro Pro
 35 40 45

Thr Leu Pro Ser Ser Leu Asn Lys His Val Ala Gln Trp Phe Pro Asn
 50 55 60

Leu Ala Ala His Ser Tyr Gln Ser Pro Gly Asp Phe Phe Lys Ile Leu

65 70 75 80
 Met Pro Asn Leu His Ser Thr Leu Ile Asn Met Ser Arg Ser Gly Ser
 85 90 95
 Leu Thr Asp Thr Thr Ile Lys Lys Lys Lys Ile Pro Lys Met Ile Pro
 100 105 110
 Ile Asp Asn Lys Val Glu Glu Pro Leu Ala His Pro Lys Leu Arg Tyr
 115 120 125
 Lys Val Lys Trp Pro Phe
 130

<210> 3082

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3082

Met Cys Thr Trp Gly Gln Asp Leu Arg Pro Thr Ser Trp Thr Ala Ala
 1 5 10 15
 Ser Thr His Gly Leu Arg Glu Lys Val Pro Cys Cys Arg Leu Trp Gly
 20 25 30
 Thr Ser Ala Leu Thr Val Ala Met Pro Glu Lys Ala Pro Pro Asp Leu
 35 40 45
 Pro Thr Trp Pro Ala Cys Pro Val Arg Arg Ala Gly Trp Gly Trp Cys
 50 55 60
 Trp Leu Gln Met Ile Leu Lys Gly Thr Ala Arg Lys Pro Pro Gly Ala
 65 70 75 80
 Pro Pro Ala Ala Gly Ser Glu Arg Gly Thr Gly Ser Leu Ala Pro Ser
 85 90 95

Arg Ser Val Ser Thr Arg Ala Thr Pro Val Thr Cys Arg Arg Gly Arg
 100 105 110
 Gln Thr Arg Ser Gly Pro Ala Pro Glu Gly Ala Ser Cys Arg Trp His
 115 120 125
 Lys Gly Val Ile Cys Ile Leu Val Lys Gly Glu Pro Thr Cys Leu Leu
 130 135 140
 Gln Val Gly Asn Thr Pro Trp Arg Pro Trp Cys Gly Ala Ser Thr Arg
 145 150 155 160
 Ala Ser Ser Ser Ser Ser Ala Ala Gly Pro Trp Glu Gly Thr Gly Pro
 165 170 175
 Ala Pro Val Gln Pro Gly
 180

<210> 3083

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3083

Met Glu Glu Gly Asn Pro Phe Ile Arg Leu Pro Lys Thr Ser Val Asp
 1 5 10 15
 Gly Ile Leu Ile Ile Tyr Cys Leu Ser Gln Ile Ser His His Arg Cys
 20 25 30
 Leu Pro Thr Val Ser His Leu Leu Lys Phe Leu Ser His Ser Phe Ser
 35 40 45
 Thr Val Phe Phe Pro Thr Thr Phe Leu Pro Asp His Val Ser Gly Pro
 50 55 60
 Leu Met Arg Ser Lys Ser Thr Arg Gly Ser Lys Arg Ile Leu Ile Thr

65 70 75 80
 Lys Arg Ser Glu Trp Pro Lys Thr Leu Leu Leu Ser His Gly Tyr Cys
 85 90 95
 Asp Leu Thr Phe Val Leu Tyr Leu Leu Ile Pro Asp Cys
 100 105

<210> 3084

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3084

Met Arg Gly Pro Gln Trp Gly Ile Leu Val Ile Leu Glu Thr Gly Ile
 1 5 10 15
 Phe His Ser Cys Val Lys Met Gln Leu Phe Phe Cys Leu Ile Val Arg
 20 25 30
 Thr His Asn Pro Lys Leu Ile Leu His Tyr Arg Ile Leu Pro Asp Phe
 35 40 45
 Ile Ser Lys Asn Pro Trp Cys Ser Ile Ser Phe Ser Ser Leu His Pro
 50 55 60
 Ile Gln Ser Cys Gly Ile Gly Lys Cys Ser Cys His Gly Val Glu Lys
 65 70 75 80
 Pro Glu Val Cys Gln Ala Leu Glu Ala Pro Arg Ser Thr Met Pro Lys
 85 90 95
 Val Thr Asn Phe Pro Glu Val Ala Glu
 100 105

<210> 3085

<211> 784

<212> PRT

<213> Homo sapiens

<400> 3085

Met Thr Ile Val Pro Thr Thr Asp Ile Glu Pro Val Thr Val Arg Thr

1 5 10 15

Glu Ala Thr Val Thr Thr Leu Ala Pro Lys Thr Ser Gln Arg Thr Arg

20 25 30

Thr Arg Arg Pro Arg Pro Lys His Lys Thr Thr Pro Arg Pro Glu Thr

35 40 45

Leu Gln Thr Lys Leu Asp Phe Gly Pro Ile Thr Pro Gly Thr Ser Ser

50 55 60

Ala Pro Thr Thr Thr Thr Lys Arg Thr Arg Arg Pro His Pro Lys Pro

65 70 75 80

Lys Thr Thr Pro His Pro Glu Val Pro Gln Thr Lys Leu Ala Pro Lys

85 90 95

Val Pro Gln Arg Thr His Arg Pro His Pro Lys Pro Lys Thr Thr Leu

100 105 110

Ser Pro Glu Glu Leu Gln Thr Glu Leu Val Pro Val Thr Asp Leu Gly

115 120 125

Pro Val Thr Phe Arg Thr Glu Ile Pro Ala Thr Thr Leu Ala Thr Lys

130 135 140

Thr Ser Lys Arg Thr Arg Pro Pro Arg Pro Arg Pro Lys Thr Thr Pro

145 150 155 160

Ser Pro Gln Ala Pro Glu Thr Lys Pro Val Pro Ala Thr Val Leu Glu

165 170 175

Pro Val Thr Leu Arg Pro Glu Ala Ser Thr Thr Leu Ala Ser Lys Thr

180	185	190
Ser Gln Arg Thr Arg Arg Pro Arg Leu Arg Thr Lys Thr Thr Pro Arg		
195	200	205
Pro Glu Ala Pro Glu Ser Lys Pro Ala Pro Lys Gln Thr Pro Arg Ala		
210	215	220
Pro Pro Lys Pro Lys Thr Ser Pro Arg Pro Arg Ile Pro Gln Thr Gln		
225	230	235
Pro Val Pro Lys Val Pro Gln Arg Val Thr Ala Lys Pro Lys Thr Ser		
245	250	255
Pro Ser Pro Glu Val Ser Tyr Thr Thr Pro Ala Pro Lys Asp Val Leu		
260	265	270
Leu Pro His Lys Pro Tyr Pro Glu Val Ser Gln Ser Glu Pro Ala Pro		
275	280	285
Leu Glu Thr Arg Gly Ile Pro Phe Ile Pro Met Ile Ser Pro Ser Pro		
290	295	300
Ser Gln Glu Glu Leu Gln Thr Thr Leu Glu Glu Thr Asp Gln Ser Thr		
305	310	315
Gln Glu Pro Phe Thr Thr Lys Ile Pro Arg Thr Thr Glu Leu Ala Lys		
325	330	335
Thr Thr Gln Ala Pro His Arg Phe Tyr Thr Thr Val Arg Pro Arg Thr		
340	345	350
Ser Asp Lys Pro His Ile Arg Pro Val Leu Asn Arg Thr Thr Thr Arg		
355	360	365
Pro Thr Arg Pro Lys Pro Ser Gly Met Pro Ser Gly Asn Gly Val Gly		
370	375	380
Thr Gly Val Lys Gln Ala Pro Arg Pro Ser Gly Ala Asp Arg Asn Val		
385	390	395
Ser Val Asp Ser Thr His Pro Thr Lys Lys Pro Gly Thr Arg Arg Pro		
405	410	415

Pro Leu Pro Pro Arg Pro Thr His Pro Arg Arg Lys Pro Leu Pro Pro
420 425 430
Asn Asn Val Thr Gly Lys Pro Gly Ser Ala Gly Ile Ile Ser Ser Gly
435 440 445
Pro Ile Thr Thr Pro Pro Leu Arg Ser Thr Pro Arg Pro Thr Gly Thr
450 455 460
Pro Leu Glu Arg Ile Glu Thr Asp Ile Lys Gln Pro Thr Val Pro Ala
465 470 475 480
Ser Gly Glu Glu Leu Glu Asn Ile Thr Asp Phe Ser Ser Ser Pro Thr
485 490 495
Arg Glu Thr Asp Pro Leu Gly Lys Pro Arg Phe Lys Gly Pro His Val
500 505 510
Arg Tyr Ile Gln Lys Pro Asp Asn Ser Pro Cys Ser Ile Thr Asp Ser
515 520 525
Val Lys Arg Phe Pro Lys Glu Glu Ala Thr Glu Gly Asn Ala Thr Ser
530 535 540
Pro Pro Gln Asn Pro Pro Thr Asn Leu Thr Val Val Thr Val Glu Gly
545 550 555 560
Cys Pro Ser Phe Val Ile Leu Asp Trp Glu Lys Pro Leu Asn Asp Thr
565 570 575
Val Thr Glu Tyr Glu Val Ile Ser Arg Glu Asn Gly Ser Phe Ser Gly
580 585 590
Lys Asn Lys Ser Ile Gln Met Thr Asn Gln Thr Phe Ser Thr Val Glu
595 600 605
Asn Leu Lys Pro Asn Thr Ser Tyr Glu Phe Gln Val Lys Pro Lys Asn
610 615 620
Pro Leu Gly Glu Gly Pro Val Ser Asn Thr Val Ala Phe Ser Thr Glu
625 630 635 640
Ser Ala Asp Pro Arg Val Ser Glu Pro Val Ser Ala Gly Arg Asp Ala

出証特 2 0 0 4 - 3 0 5 9 6 6 0

His Ile Gly Glu Thr Glu Lys Arg Cys Phe Ile Glu Glu Ile Pro Asp
 35 40 45
 Glu Thr Met Met Trp Asp Lys Gln Lys Glu Val Phe Leu Pro Ser Thr
 50 55 60
 Pro Gly Leu Gly Met His Val Glu Val Lys Asp Pro Asp Gly Lys Val
 65 70 75 80
 Val Leu Ser Arg Gln Tyr Gly Ser Glu Gly Arg Phe Thr Phe Thr Ser
 85 90 95
 His Thr Pro Gly Asp His Gln Ile Cys Leu His Ser Asn Ser Thr Arg
 100 105 110
 Met Ala Leu Phe Ala Gly Gly Lys Leu Arg Val His Leu Asp Ile Gln
 115 120 125
 Val Gly Glu His Ala Asn Asn Tyr Pro Glu Ile Ala Ala Lys Asp Lys
 130 135 140
 Leu Thr Glu Leu Gln Leu Arg Ala Arg Gln Leu Leu Asp Gln Val Glu
 145 150 155 160
 Gln Ile Gln Lys Glu Gln Asp Tyr Gln Arg Lys Lys Val His Cys Leu
 165 170 175
 Asn Met Asp Ser Leu Ser Phe Gln Leu Gly Leu Tyr Leu Ser Pro His
 180 185 190
 Phe Leu Gln Ala Ser Asn Thr Ile Glu Pro Gly Gln Gln Ser Phe Val
 195 200 205
 Gln Val Arg Val Ser Pro Ser Val Ser Glu Phe Leu Leu Gln Leu Asp
 210 215 220
 Ser Cys His Leu Asp Leu Gly Pro Glu Gly Gly Thr Val Glu Leu Ile
 225 230 235 240
 Gln Gly Arg Ala Ala Lys Gly Asn Cys Val Ser Leu Leu Ser Pro Ser
 245 250 255
 Pro Glu Gly Asp Pro Arg Phe Ser Phe Leu Leu His Phe Tyr Thr Val

260 265 270
 Pro Ile Pro Lys Thr Gly Thr Leu Ser Cys Thr Val Ala Leu Arg Pro
 275 280 285
 Lys Thr Gly Ser Gln Asp Gln Glu Val His Arg Thr Val Phe Met Arg
 290 295 300
 Leu Asn Ile Ile Ser Pro Asp Leu Ser Gly Cys Thr Ser Lys Gly Leu
 305 310 315 320
 Val Leu Pro Ala Val Leu Gly Ile Thr Phe Gly Ala Phe Leu Ile Gly
 325 330 335
 Ala Leu Leu Thr Ala Ala Leu Trp Tyr Ile Tyr Ser His Thr Arg Ser
 340 345 350
 Pro Ser Lys Arg Glu Pro Val Val Ala Val Ala Ala Pro Ala Ser Ser
 355 360 365
 Glu Ser Ser Ser Thr Asn His Ser Ile Gly Ser Thr Gln Ser Thr Pro
 370 375 380
 Cys Ser Thr Ser Ser Met Ala
 385 390

<210> 3087

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3087

Met Arg Lys Arg Glu Asn Leu Gly Asn Gly Ser Thr Glu Arg Ile Ile
 1 5 10 15
 Arg Val Leu Ala Arg His Met Asn Ala Gln Arg Thr Leu Glu Lys Pro
 20 25 30

Glu Arg Val Pro Gly Gln His Pro Ala Pro Val Ser His Cys Pro Thr
 35 40 45
 Pro Gly Pro Pro Ser Pro Ala Pro Arg Gly His Arg Gly Phe Leu Ala
 50 55 60
 Leu Leu Ile Ile Ser Ile Phe Met Met Arg Leu Val Asn Lys Thr Arg
 65 70 75 80
 Glu Leu Ala Lys His Leu Tyr Leu Ser Arg Ala Arg Ser Ala Glu Gln
 85 90 95
 Arg Ser Val Gly Gly Leu Gly Gly Ala Asn
 100 105

<210> 3088

<211> 285

<212> PRT

<213> Homo sapiens

<400> 3088

Met Leu Glu Ile Lys Met Glu Glu Ala Met Thr Tyr Thr Glu Asp Ser
 1 5 10 15
 Tyr Gly Met Asp Gly Lys Val Asn Gln Pro Arg Leu Thr Ala Asp Ile
 20 25 30
 Asn Trp Gln Gly Leu Glu Glu Leu His Ser Val Asn Glu Asn Ile Tyr
 35 40 45
 Glu Tyr Arg Gln Asn Tyr Arg Leu Ser Leu Val Asp Trp Thr Asn Tyr
 50 55 60
 Leu Lys Asp Leu Asp Arg Val Phe Ala Leu Leu Lys Ser His Tyr Glu
 65 70 75 80
 Gln Asn Lys Thr Asn Lys Thr Gln Thr Ala Gln Ser Asp Gly Phe Leu

	85	90	95
Val Val Ser Ala Glu His Ala Val Ser Met Glu Met Ala Ser Ala Asp			
100	105	110	
Ser Asp Glu Asp Pro Arg His Lys Val Gly Lys Thr Pro His Leu Thr			
115	120	125	
Leu Pro Ala Asp Leu Gln Thr Leu His Leu Asn Arg Pro Thr Leu Ser			
130	135	140	
Pro Glu Ser Lys Leu Glu Trp Asn Asn Asp Ile Pro Glu Val Asn His			
145	150	155	160
Leu Asn Ser Glu His Trp Arg Lys Thr Glu Lys Trp Thr Gly His Glu			
165	170	175	
Glu Thr Asn His Leu Glu Thr Asp Phe Ser Gly Asp Gly Met Thr Glu			
180	185	190	
Leu Glu Leu Gly Pro Ser Pro Arg Leu Gln Pro Ile His Arg His Pro			
195	200	205	
Lys Glu Leu Pro Gln Tyr Gly Gly Pro Gly Lys Asp Ile Phe Glu Asp			
210	215	220	
Gln Leu Tyr Leu Pro Val His Ser Asp Gly Ile Ser Val His Gln Met			
225	230	235	240
Phe Thr Met Ala Thr Ala Glu His Arg Ser Asn Ser Ser Ile Ala Gly			
245	250	255	
Lys Met Leu Thr Lys Val Glu Lys Asn His Glu Lys Glu Lys Ser Gln			
260	265	270	
His Leu Glu Gly Ser Thr Ser Ser Ser Leu Ser Ser Asp			
275	280	285	

<210> 3089

<211> 697

<212> PRT

<213> Homo sapiens

<400> 3089

```

Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro Leu
  1             5             10             15
Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro His
      20             25             30
His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala Cys
      35             40             45
Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu Gln
      50             55             60
Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu Gly
      65             70             75             80
Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro Pro
      85             90             95
Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala Pro
      100            105            110
Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro Leu
      115            120            125
Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp Leu
      130            135            140
Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser Gln
      145            150            155            160
Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala Cys
      165            170            175
Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro Ala
      180            185            190
Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu Lys

```


195	200	205
Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile Arg		
210	215	220
Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala Arg		
225	230	235
Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser Ser		
245	250	255
Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr Arg		
260	265	270
Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp Ser		
275	280	285
Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln Asp		
290	295	300
Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly Ser		
305	310	315
Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu Ser		
325	330	335
Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg Ser		
340	345	350
Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val Gly		
355	360	365
Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu Ala		
370	375	380
Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg Thr		
385	390	395
Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile Leu		
405	410	415
Arg Pro Ala Pro Leu Pro Ala Ala Val Val Pro Ser Thr Pro Thr Ser		
420	425	430

Ala Pro Ala Pro Thr Gln Pro Ala Pro Thr Pro Thr Ser Gly Pro Ile

435

440

445

Gly Leu Arg Ile Leu Ala Gln Gln Pro Leu Ser Val Thr Cys Phe Ser

450

455

460

Leu Ala Leu Pro Ser Pro Pro Ala Val Ala Val Ala Ser Pro Ala Pro

465

470

475

480

Ala Pro Ala Pro Ser Pro Ala Pro Ala Arg Ala Gln Ala Pro Ala Ser

485

490

495

Ala Arg Asp Pro Ala Pro Ala Pro Ala Pro Val Ala Gly Pro Ala Pro

500

505

510

Ala Ser Thr Ser Ala Pro Gly Asp Ser Leu Glu Gln His Phe Thr Gly

515

520

525

Leu His Ala Ser Leu Cys Asp Ala Ile Ser Gly Ser Val Ala His Ser

530

535

540

Pro Pro Glu Lys Leu Arg Glu Trp Leu Glu Thr Ala Gly Pro Trp Gly

545

550

555

560

Gln Ala Ala Trp Gln Asp Cys Gln Gly Val Gln Gly Leu Leu Ala Lys

565

570

575

Leu Leu Ser Gln Leu Gln Arg Phe Asp Arg Thr His Arg Cys Pro Phe

580

585

590

Pro His Val Val Arg Ala Gly Ala Ile Phe Val Pro Ile His Leu Val

595

600

605

Lys Glu Arg Leu Phe Pro Arg Leu Pro Pro Ala Ser Val Asp His Val

610

615

620

Leu Gln Glu His Arg Val Glu Leu Arg Pro Thr Thr Leu Ser Glu Glu

625

630

635

640

Arg Ala Leu Arg Glu Leu Ala Leu Pro Gly Cys Thr Ser Arg Met Leu

645

650

655

Lys Leu Leu Ala Leu Arg Gln Leu Pro Asp Ile Tyr Pro Asp Leu Leu

660 665 670
Gly Leu Gln Trp Arg Asp Cys Val Arg Arg Gln Leu Gly Glu His Gly
675 680 685
Ala Ala Pro Val Ala Thr Gly Ala Val
690 695

<210> 3090

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3090

Met Cys Lys Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala
1 5 10 15
Gln Val Val Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala
20 25 30
Ile Gly Asp Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile
35 40 45
Gly Val Gly Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser
50 55 60
Asp Tyr Ser Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val
65 70 75 80
His Gly Arg Trp Ser Tyr Phe Arg Ile Cys Lys Phe Leu Cys Tyr Phe
85 90 95
Phe Tyr Lys Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe
100 105 110
Phe Cys Gly Phe Ser Ala Gln Thr Val Tyr Asp His Trp Phe Ile Thr
115 120 125

Leu Phe Asn Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile
130 135 140
Phe Asp Gln Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu
145 150 155 160
Tyr Lys Pro Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe
165 170 175
Ile Cys Val Leu His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile
180 185 190
Pro Tyr Gly Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile
195 200 205
Ala Asp Tyr Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile
210 215 220
Val Val Ser Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile
225 230 235 240
Asn His Val Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu
245 250 255
Phe Thr Met His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe
260 265 270
Pro Phe Val Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp
275 280 285
Leu Val Ile Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala
290 295 300
Phe Arg Phe Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile
305 310 315 320
Arg Arg Trp Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg
325 330 335
Arg Pro Arg Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe
340 345 350
Ala His Gln Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met

355 360 365
 Arg Ala Lys Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr
 370 375 380
 Asn Ser Thr Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr
 385 390 395 400
 Val Ser Ser Phe Ser Gln Asp Lys Thr Val Lys Leu
 405 410

<210> 3091

<211> 655

<212> PRT

<213> Homo sapiens

<400> 3091

Met Thr Glu Ser Leu Pro Val Ser Asp Val Leu Glu Ser Val Thr Leu
 1 5 10 15
 Ser Thr Glu Ser Pro Lys Glu Thr Ile Ala Pro Ala Lys Thr Asp Tyr
 20 25 30
 Val Tyr Pro Thr Ala Lys Ala Pro Leu Trp Pro Glu Glu Pro Lys Thr
 35 40 45
 Glu Val Val Glu Ser Ile Thr Tyr Val Ser Glu Pro Pro Glu Thr Thr
 50 55 60
 Leu Glu Thr Ser Pro Leu Pro Ser Gln Ser Ile Thr Leu Pro Ser Pro
 65 70 75 80
 Asp Glu Pro Gln Thr Glu Pro Ala Pro Lys Gln Thr Pro Arg Ala Pro
 85 90 95
 Pro Lys Pro Lys Thr Ser Pro Arg Pro Arg Ile Pro Gln Thr Gln Pro
 100 105 110

Val Pro Lys Val Pro Gln Arg Val Thr Ala Lys Pro Lys Thr Ser Pro
115 120 125
Ser Pro Glu Val Ser Tyr Thr Thr Pro Ala Pro Lys Asp Val Leu Leu
130 135 140
Pro His Lys Pro Tyr Pro Glu Val Ser Gln Ser Glu Pro Ala Pro Leu
145 150 155 160
Glu Thr Arg Gly Ile Pro Phe Ile Pro Met Ile Ser Pro Ser Pro Ser
165 170 175
Gln Glu Glu Leu Gln Thr Thr Leu Glu Glu Thr Asp Gln Ser Thr Gln
180 185 190
Glu Pro Phe Thr Thr Lys Ile Pro Arg Thr Thr Glu Leu Ala Lys Thr
195 200 205
Thr Gln Ala Pro His Arg Phe Tyr Thr Thr Val Arg Pro Arg Thr Ser
210 215 220
Asp Lys Pro His Ile Arg Pro Val Leu Asn Arg Thr Thr Thr Arg Pro
225 230 235 240
Thr Arg Pro Lys Pro Ser Gly Met Pro Ser Gly Asn Gly Val Gly Thr
245 250 255
Gly Val Lys Gln Ala Pro Arg Pro Ser Gly Ala Asp Arg Asn Val Ser
260 265 270
Val Asp Ser Thr His Pro Thr Lys Lys Pro Gly Thr Arg Arg Pro Pro
275 280 285
Leu Pro Pro Arg Pro Thr His Pro Arg Arg Lys Pro Leu Pro Pro Asn
290 295 300
Asn Val Thr Gly Lys Pro Gly Ser Ala Gly Ile Ile Ser Ser Gly Pro
305 310 315 320
Ile Thr Thr Pro Pro Leu Arg Ser Thr Pro Arg Pro Thr Gly Thr Pro
325 330 335
Leu Glu Arg Ile Glu Thr Asp Ile Lys Gln Pro Thr Val Pro Ala Ser

340	345	350
Gly Glu Glu Leu Glu Asn Ile Thr Asp Phe Ser Ser Ser Pro Thr Arg		
355	360	365
Glu Thr Asp Pro Leu Gly Lys Pro Arg Phe Lys Gly Pro His Val Arg		
370	375	380
Tyr Ile Gln Lys Pro Asp Asn Ser Pro Cys Ser Ile Thr Asp Ser Val		
385	390	395
Lys Arg Phe Pro Lys Glu Glu Ala Thr Glu Gly Asn Ala Thr Ser Pro		
405	410	415
Pro Gln Asn Pro Pro Thr Asn Leu Thr Val Val Thr Val Glu Gly Cys		
420	425	430
Pro Ser Phe Val Ile Leu Asp Trp Glu Lys Pro Leu Asn Asp Thr Val		
435	440	445
Thr Glu Tyr Glu Val Ile Ser Arg Glu Asn Gly Ser Phe Ser Gly Lys		
450	455	460
Asn Lys Ser Ile Gln Met Thr Asn Gln Thr Phe Ser Thr Val Glu Asn		
465	470	475
Leu Lys Pro Asn Thr Ser Tyr Glu Phe Gln Val Lys Pro Lys Asn Pro		
485	490	495
Leu Gly Glu Gly Pro Val Ser Asn Thr Val Ala Phe Ser Thr Glu Ser		
500	505	510
Ala Asp Pro Arg Val Ser Glu Pro Val Ser Ala Gly Arg Asp Ala Ile		
515	520	525
Trp Thr Glu Arg Pro Phe Asn Ser Asp Ser Tyr Ser Glu Cys Lys Gly		
530	535	540
Lys Gln Tyr Val Lys Arg Thr Trp Tyr Lys Lys Phe Val Gly Val Gln		
545	550	555
Leu Cys Asn Ser Leu Arg Tyr Lys Ile Tyr Leu Ser Asp Ser Leu Thr		
565	570	575

Gly Lys Phe Tyr Asn Ile Gly Asp Gln Arg Gly His Gly Glu Asp His
 580 585 590
 Cys Gln Phe Val Asp Ser Phe Leu Asp Gly Arg Thr Gly Gln Gln Leu
 595 600 605
 Thr Ser Asp Gln Leu Pro Ile Lys Glu Gly Tyr Phe Arg Ala Val Arg
 610 615 620
 Gln Glu Pro Val Gln Phe Gly Glu Ile Gly Gly His Thr Gln Ile Asn
 625 630 635 640
 Tyr Val Gln Trp Tyr Glu Cys Gly Thr Thr Ile Pro Gly Lys Trp
 645 650 655

<210> 3092

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3092

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1 5 10 15
 Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
 20 25 30
 Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
 35 40 45
 Phe Met Val Pro Gly Tyr Leu Leu Val Lys Ala Cys Val Phe Gly Asn
 50 55 60
 Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro Arg Thr Glu Ala
 65 70 75 80
 Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu Leu Phe Cys Ala

	85		90		95
Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val Leu Gln Glu Arg					
	100		105		110
Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser Pro Gly Glu Arg					
	115		120		125
Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg Val Leu Ala Leu					
	130		135		140
Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln Pro Arg His Gly					
	145		150		155
					160
Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser Asn Val Leu Ser					
	165		170		175
Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser Phe Pro Thr Gln					
	180		185		190
Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met Leu Met Gly Lys					
	195		200		205
Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr Leu Thr Ala Thr					
	210		215		220
Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser Ser Gly Pro Glu					
	225		230		235
					240
Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu Ile Leu Leu Ala					
	245		250		255
Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp Gln Asp Ala Leu					
	260		265		270
Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe Gly Val Asn Phe					
	275		280		285
Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu Gln Gly Ala Leu					
	290		295		300
Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu Phe Ala Ala His					
	305		310		315
					320

出証特 2 0 0 4 - 3 0 5 9 6 6 0

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Asp Val Lys Pro Tyr Lys Cys Val Arg Cys Gly Lys Thr Phe Arg Phe
305 310 315 320
Gly Phe Tyr Leu Thr Glu His Gln Arg Ile His Thr Gly Glu Lys Pro
325 330 335
Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Arg Gly Asn Leu
340 345 350
Lys Glu His Leu Lys Ile His Ser Gly Leu Lys Pro Tyr Asp Cys Lys
355 360 365
Glu Cys Gly Lys Ser Phe Ser Arg Arg Gly Gln Phe Thr Glu His Gln
370 375 380
Lys Ile His Thr Gly Val Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys
385 390 395 400
Ala Phe Ser Arg Ser Val Asp Leu Arg Ile His Gln Arg Ile His Thr
405 410 415
Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly Lys Ala Phe Arg Leu
420 425 430
Asn Ser His Leu Thr Glu His Gln Arg Ile His Thr Gly Glu Lys Pro
435 440 445
Tyr Glu Cys Lys Val Cys Arg Lys Ala Phe Arg Gln Tyr Ser His Leu
450 455 460
Tyr Gln His Gln Lys Thr His Asn Val Ile
465 470

<210> 3094

<211> 237

<212> PRT

<213> Homo sapiens

<400> 3094

Met Glu Pro Gln Asp Phe Ser Phe Pro Gly Tyr Pro Leu Pro Ala Leu
 1 5 10 15
 Ile Pro Ser Pro Pro Pro Pro Pro Leu Gly Thr Ser Pro Pro Leu Thr
 20 25 30
 Pro Arg Ser Pro Ser His Ser Gly Glu Pro Phe Gly Leu Pro Gly Leu
 35 40 45
 Glu Pro Glu Pro Gly Gly Pro Gln Ala Gly Glu Pro Pro Pro Pro Leu
 50 55 60
 Ala Gly Asp Lys Pro His Lys Cys Pro Glu Cys Gly Lys Gly Phe Arg
 65 70 75 80
 Arg Ser Ser Asp Leu Val Lys His His Arg Val His Thr Gly Glu Lys
 85 90 95
 Pro Tyr Leu Cys Pro Glu Cys Gly Lys Gly Phe Ala Asp Ser Ser Ala
 100 105 110
 Arg Val Lys His Leu Arg Thr His Arg Gly Glu Arg Ala Arg Pro Pro
 115 120 125
 Pro Pro Ser Thr Leu Leu Arg Pro His Asn Pro Pro Gly Pro Val Pro
 130 135 140
 Met Ala Pro Arg Pro Arg Val Arg Ala Gln Pro Ser Gly Pro Ser Gln
 145 150 155 160
 Pro His Val Cys Gly Phe Cys Gly Lys Glu Phe Pro Arg Ser Ser Asp
 165 170 175
 Leu Val Lys His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys
 180 185 190
 Ala Glu Cys Gly Lys Gly Phe Gly Asp Ser Ser Ala Arg Ile Lys His
 195 200 205
 Gln Arg Gly His Leu Val Leu Thr Pro Phe Gly Ile Gly Asp Gly Arg
 210 215 220

Ala Arg Pro Leu Lys Gln Glu Ala Ala Thr Gly Leu Glu

225

230

235

<210> 3095

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3095

Met Pro Arg Pro Arg Arg Val Ser Gln Leu Leu Asp Leu Cys Leu Trp

1

5

10

15

Cys Phe Met Lys Asn Ile Ser Arg Tyr Leu Thr Asp Ile Lys Pro Leu

20

25

30

Pro Pro Asn Ile Lys Asp Arg Leu Ile Lys Ile Met Ser Met Gln Gly

35

40

45

Gln Ile Thr Asp Ser Asn Ile Ser Glu Ile Leu His Pro Glu Val Gln

50

55

60

Thr Leu Asp Leu Arg Ser Cys Asp Ile Ser Asp Ala Ala Leu Leu His

65

70

75

80

Leu Ser Asn Cys Arg Lys Leu Lys Lys Leu Asn Leu Asn Ala Ser Lys

85

90

95

Gly Asn Arg Val Ser Val Thr Ser Glu Gly Ile Lys Ala Val Ala Ser

100

105

110

Ser Cys Ser Tyr Leu His Glu Ala Ser Leu Lys Arg Cys Cys Asn Leu

115

120

125

Thr Asp Glu Gly Val Val Ala Leu Ala Leu Asn Cys Gln Leu Leu Lys

130

135

140

Ile Ile Asp Leu Gly Gly Cys Leu Ser Ile Thr Asp Val Ser Leu His

145 150 155 160
 Ala Leu Gly Lys Asn Cys Pro Phe Leu Gln Cys Val Asp Phe Ser Ala
 165 170 175
 Thr Gln Val Ser Asp Ser Gly Val Ile Ala Leu Val Ser Gly Pro Cys
 180 185 190
 Ala Lys Lys Leu Glu Glu Ile His Met Gly His Cys Val Asn Leu Thr
 195 200 205
 Asp Gly Ala Val Glu Ala Val Leu Thr Tyr Cys Pro Gln Ile Arg Ile
 210 215 220
 Leu Leu Phe His Gly Cys Pro Leu Ile Thr Asp His Ser Arg Glu Val
 225 230 235 240
 Leu Glu Gln Leu Val Gly Pro Asn Lys Leu Lys Gln Val Thr Trp Thr
 245 250 255
 Val Tyr

<210> 3096

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3096

Met Ser Ser Thr Trp Val Thr Asn His Ser Glu Ile Leu Asn Thr Tyr
 1 5 10 15
 Pro Leu Gly Ala Gly Gly Gly Asn Asp Val Gln Tyr Leu Lys Gln Asn
 20 25 30
 Leu Thr Trp Thr Glu Arg Leu Tyr Phe Pro Leu Leu His Glu Ser Leu
 35 40 45

Ile Ile Leu Gly Gly Leu Leu Cys Ile Pro Pro Phe Leu Leu Ser Pro
 50 55 60
 Pro Leu Pro Phe Val Phe Ser Lys Glu Ser Glu Leu Arg Phe Pro Cys
 65 70 75 80
 Ser Pro Ala Thr Leu Ile Ser Lys Thr Cys Leu Cys Val Arg Phe Phe
 85 90 95
 Thr Gly Asn Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val Ile Gln
 100 105 110
 Phe Ser Ser Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr Arg Phe
 115 120 125
 Phe Arg
 130

<210> 3097

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3097

Met Gln Leu Leu Lys Ala Leu Trp Ala Leu Ala Gly Ala Ala Leu Cys
 1 5 10 15
 Cys Phe Leu Val Leu Val Ile His Ala Gln Phe Leu Lys Glu Gly Gln
 20 25 30
 Leu Ala Ala Gly Thr Cys Glu Ile Val Thr Leu Asp Arg Asp Ser Ser
 35 40 45
 Gln Pro Arg Arg Thr Ile Ala Arg Gln Thr Ala Arg Cys Ala Cys Arg
 50 55 60
 Lys Gly Gln Ile Ala Gly Thr Thr Arg Ala Arg Pro Ala Cys Val Asp

65	70	75	80
Ala Arg Ile Ile Lys Thr Lys Gln Trp Cys Asp Met Leu Pro Cys Leu			
	85	90	95
Glu Gly Glu Gly Cys Asp Leu Leu Ile Asn Arg Ser Gly Trp Thr Cys			
	100	105	110
Thr Gln Pro Gly Gly Arg Ile Lys Thr Thr Thr Val Ser			
	115	120	125

<210> 3098

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3098

Met Gly His Thr Leu Ser Ser Lys Cys Gly Pro Ala Pro Arg Thr Pro			
1	5	10	15
Pro Arg Gly Leu Ala Pro Val Pro Arg Leu Leu Gly Asn Pro Ser Thr			
	20	25	30
Leu Arg Val Gly Glu Val Thr Pro Lys Leu Leu Leu Ser Gly Asp Phe			
	35	40	45
Arg Thr Gln Arg Arg Pro Arg Ser Cys Gln Ala Phe Gln Gly Gln His			
	50	55	60
Pro Pro Pro Val Arg Ser Leu Ser Ser Gly Pro Pro Arg Ala Pro Arg			
	65	70	75
Leu Ser Pro Ala Gly Ala Ser Pro Gly Pro Gln Ser Ala Ser Ser Arg			
	85	90	95
Gly Gln Arg Ala Ser Ser Pro Ala Arg Ser Gly Arg Ala Ser Arg Pro			
	100	105	110

Thr Ser Pro Ala Glu Ser Thr Ala Pro Pro Arg Ser Pro Arg Thr Ser
115 120 125
Ser Arg Val Gly Ser Gly Ser Arg Val Gly Thr Arg Gly Pro Leu Ala
130 135 140
His Arg Tyr Pro His Arg Arg Arg Pro Pro Pro Pro Pro Phe Val Ala
145 150 155 160
Lys His Ser Cys Ser Ser Phe Ser Cys Leu Pro Gln Lys Ala Ala Pro
165 170 175
Asn Leu Ala Arg Ser Trp Gly Leu Pro Gly Ser Arg Thr Ala Arg Leu
180 185 190
Ser Gln Gly Pro Asp Arg Gly Pro Arg Gly Val Cys Arg Leu Gly Ser
195 200 205
Gly Ala Ala Glu Pro Ser Gln Arg Arg Gly Lys Pro Ser Arg Gly Thr
210 215 220
His Arg Pro Glu Pro Arg Ala Gly Gly Arg Leu Ser Pro Ala Glu Arg
225 230 235 240
Ser Pro Glu Thr Glu His Ala Gln Cys Gly Arg Arg Gly Ser Leu Arg
245 250 255
Asn Asp

<210> 3099

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3099

Met Asp Phe Ser Glu Ser Glu Lys Phe Met Val Leu Leu Trp Lys Asn

1	5	10	15
Phe	Ile	Leu	Lys
Arg	Arg	Arg	Cys
Ile	Ala	Leu	Val
Val	Val	Glu	Met
Val			
20	25	30	
Leu	Thr	Phe	Leu
Phe	Ser	Ala	Ala
Leu	Leu	Ala	Thr
Arg	Ser	Val	Ile
35	40	45	
Thr	Ile	Asn	Lys
Asn	Gly	Pro	Phe
Asp	Phe	Ala	Ala
Gln	Pro	Val	Asp
50	55	60	
Glu	Val	Pro	Phe
Tyr	Ile	Thr	Ala
Ser	Leu	Ile	Ser
Pro	Ser	Pro	Leu
65	70	75	80
Glu	Leu	Ala	Tyr
Val	Pro	Ser	Arg
Ser	Thr	Val	Val
Gln	Gly	Ile	Ile
85	90	95	
Glu	Arg	Val	Lys
Met	Asp	Leu	Asn
Pro	Gln	Met	Lys
Gly			
100	105		

<210> 3100

<211> 228

<212> PRT

<213> Homo sapiens

<400> 3100

Met	Glu	Glu	Gln	Pro	Gln	Met	Gln	Asp	Ala	Asp	Glu	Pro	Ala	Asp	Ser
1	5	10	15												
Gly	Gly	Glu	Gly	Arg	Ala	Gly	Gly	Pro	Pro	Gln	Val	Ala	Gly	Ala	Gln
20	25	30													
Ala	Ala	Cys	Ser	Glu	Asp	Arg	Met	Thr	Leu	Leu	Leu	Arg	Leu	Arg	Ala
35	40	45													
Gln	Thr	Lys	Gln	Gln	Leu	Leu	Glu	Tyr	Lys	Ser	Met	Val	Asp	Ala	Ser
50	55	60													

Glu Glu Lys Thr Pro Glu Gln Ile Met Gln Glu Lys Gln Ile Glu Ala
65 70 75 80
Lys Ile Glu Asp Leu Glu Asn Glu Ile Glu Glu Val Lys Val Ala Phe
85 90 95
Glu Ile Lys Lys Leu Ala Leu Asp Ser Val Leu Met Asp Asn Met Lys
100 105 110
His Leu Leu Glu Leu Asn Lys Leu Ile Met Lys Ser Gln Gln Glu Ser
115 120 125
Trp Asp Leu Glu Glu Lys Leu Leu Asp Ile Arg Lys Lys Arg Leu Gln
130 135 140
Leu Lys Gln Ala Ser Glu Ser Lys Leu Leu Glu Ile Gln Thr Glu Lys
145 150 155 160
Asn Lys Gln Lys Ile Asp Leu Asp Ser Met Glu Asn Ser Glu Arg Ile
165 170 175
Lys Ile Ile Arg Gln Asn Leu Gln Met Glu Ile Lys Ile Thr Thr Val
180 185 190
Ile Gln His Val Phe Gln Asn Leu Ile Leu Gly Ser Lys Val Asn Trp
195 200 205
Ala Glu Asp Pro Ala Leu Lys Glu Ile Val Leu Gln Leu Glu Lys Asn
210 215 220
Val Asp Met Met
225

<210> 3101

<211> 219

<212> PRT

<213> Homo sapiens

<400> 3101

Met Ile His Phe His Leu Ile Phe Leu Tyr Val Ala Arg Asn Lys Thr
 1 5 10 15
 Leu Gln Met Glu Lys Val Lys Ala Arg Leu Lys Ala Glu Phe Glu Ala
 20 25 30
 Leu Glu Ser Glu Glu Arg His Leu Lys Glu Tyr Lys Gln Glu Thr Asp
 35 40 45
 Leu Leu Leu Gln Glu Lys Met Ala His Val Glu Glu Leu Arg Leu Ile
 50 55 60
 His Ala Asp Ile Asn Val Met Glu Asn Thr Ile Lys Gln Ser Glu Asn
 65 70 75 80
 Asp Leu Asn Lys Leu Leu Glu Ser Thr Arg Arg Leu His Asp Glu Tyr
 85 90 95
 Lys Pro Leu Lys Glu His Val Asp Ala Leu Arg Met Thr Leu Gly Leu
 100 105 110
 Gln Arg Leu Pro Asp Leu Cys Glu Glu Glu Lys Leu Ser Leu Asp
 115 120 125
 Tyr Phe Glu Lys Gln Lys Ala Glu Trp Gln Thr Glu Pro Gln Glu Pro
 130 135 140
 Pro Ile Pro Glu Ser Leu Ala Ala Ala Ala Ala Ala Ala Gln Gln Leu
 145 150 155 160
 Gln Val Ala Arg Lys Gln Asp Thr Arg Gln Thr Ala Thr Phe Arg Gln
 165 170 175
 Gln Pro Pro Pro Met Lys Ala Cys Leu Ser Cys His Gln Gln Ile His
 180 185 190
 Arg Asn Ala Pro Ile Cys Pro Leu Cys Lys Ala Lys Ser Arg Ser Arg
 195 200 205
 Asn Pro Lys Lys Pro Lys Arg Lys Gln Asp Glu
 210 215

<210> 3102

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3102

Met Ala Ala Ala Ala Asp Ser Phe Ser Gly Gly Pro Ala Gly Val Arg

1 5 10 15

Leu Pro Arg Ser Pro Pro Leu Lys Val Leu Ala Glu Gln Leu Arg Arg

20 25 30

Asp Ala Glu Gly Gly Pro Gly Ala Trp Arg Leu Ser Arg Ala Ala Ala

35 40 45

Gly Arg Gly Pro Leu Asp Leu Ala Ala Val Trp Met Gln Gly Arg Val

50 55 60

Val Met Ala Asp Arg Gly Glu Ala Arg Leu Arg Asp Pro Ser Gly Asp

65 70 75 80

Phe Ser Val Arg Gly Leu Glu Arg Val Pro Arg Gly Arg Pro Cys Leu

85 90 95

Val Pro Gly Lys Tyr Val Met Val Met Gly Val Val Gln Ala Cys Ser

100 105 110

Pro Glu Pro Cys Leu Gln Ala Val Lys Met Thr Asp Leu Ser Asp Asn

115 120 125

Pro Ile His Glu Ser Met Trp Glu Leu Glu Val Glu Asp Leu His Arg

130 135 140

Asn Ile Pro

145

<210> 3103

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3103

Met	Ile	Asp	Asp	Pro	Ser	Lys	Gly	Lys	Glu	Ala	Leu	Ala	Glu	Ser	Gly
1				5				10					15		
Gly	Leu	Val	Gly	Ala	Gly	Asn	Gly	Val	Phe	Phe	Pro	Ser	Thr	Glu	Ala
			20					25					30		
Phe	Trp	Asp	Gly	Gly	Ala	Val	Leu	Ala	Ser	Arg	Gly	Leu	Glu	Leu	Ala
			35					40					45		
Gly	Ser	Ser	Val	Pro	Cys	Cys	Glu	Arg	Phe	Gln	Asp	Phe	Asp	Leu	Ala
	50						55					60			
Gln	Pro	Ala	Ser	Leu	His	Pro	Thr	Cys	Ala	Thr	Ala	Phe	Ser	Gln	Cys
	65					70				75				80	
Asp	Val	Glu	Cys	Tyr	Ser	Met	Ser	Leu	Tyr	Phe	Pro	Leu	Leu	Phe	Leu
						85				90				95	
Val	Met	Gly	Thr	Leu	Glu	Pro	Ser								
						100									

<210> 3104

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3104

Met Asp Thr Pro Leu Arg Arg Ser Arg Arg Leu Gly Gly Leu Arg Pro
1 5 10 15
Glu Ser Pro Glu Ser Leu Thr Ser Val Ser Arg Thr Arg Arg Ala Leu
20 25 30
Val Glu Phe Glu Ser Asn Pro Glu Glu Thr Arg Glu Pro Gly Pro Pro
35 40 45
Pro Ser Val Gln Arg Ala Gly Leu Gly Ser Pro Glu Arg Pro Pro Lys
50 55 60
Thr Ser Pro Gly Ser Pro Arg Leu Gln Gln Gly Ala Gly Leu Glu Ser
65 70 75 80
Pro Gln Gly Gln Pro Glu Pro Gly Ala Ala Ser Pro Gln Arg Gln Gln
85 90 95
Ala Pro Gly Pro Glu Pro Ser Gln Pro Leu Leu Glu Leu Thr Pro Gly
100 105 110
Ala Pro Gln His Gln Leu Pro Pro Val Pro Gly Ser Pro Glu Pro Tyr
115 120 125
Pro Gly Gln Gln Ala Thr Ser Ser Trp Gly Asp Gly Asp Arg Arg Leu
130 135 140
Arg Gly Lys Glu Ala Lys Arg Phe Phe Ile Pro Gly Pro Ser Val Gln
145 150 155 160
Glu Val Glu

<210> 3105

<211> 553

<212> PRT

<213> Homo sapiens

<400> 3105

Met Ala Phe Ser Glu Leu Leu Asp Leu Val Gly Gly Leu Gly Arg Phe
1 5 10 15
Gln Val Leu Gln Thr Met Ala Leu Met Val Ser Ile Met Trp Leu Cys
20 25 30
Thr Gln Ser Met Leu Glu Asn Phe Ser Ala Ala Val Pro Ser His Arg
35 40 45
Cys Trp Ala Pro Leu Leu Asp Asn Ser Thr Ala Gln Ala Ser Ile Leu
50 55 60
Gly Ser Leu Ser Pro Glu Ala Leu Leu Ala Ile Ser Ile Pro Pro Gly
65 70 75 80
Pro Asn Gln Arg Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp
85 90 95
Gln Leu Leu Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp
100 105 110
Thr Glu Pro Cys Val Asp Gly Trp Val Tyr Asp Arg Ser Ile Phe Thr
115 120 125
Ser Thr Ile Val Ala Lys Trp Asn Leu Val Cys Asp Ser His Ala Leu
130 135 140
Lys Pro Met Ala Gln Ser Ile Tyr Leu Ala Gly Ile Leu Val Gly Ala
145 150 155 160
Ala Ala Cys Gly Pro Ala Ser Asp Arg Phe Gly Arg Arg Leu Val Leu
165 170 175
Thr Trp Ser Tyr Leu Gln Met Ala Val Met Gly Thr Ala Ala Ala Phe
180 185 190
Ala Pro Ala Phe Pro Val Tyr Cys Leu Phe Arg Phe Leu Leu Ala Phe
195 200 205
Ala Val Ala Gly Val Met Met Asn Thr Gly Thr Leu Leu Met Glu Trp
210 215 220

Thr	Ala	Ala	Arg	Ala	Arg	Pro	Leu	Val	Met	Thr	Leu	Asn	Ser	Leu	Gly
225					230					235					240
Phe	Ser	Phe	Gly	His	Gly	Leu	Thr	Ala	Ala	Val	Ala	Tyr	Gly	Val	Arg
				245					250					255	
Asp	Trp	Thr	Leu	Leu	Gln	Leu	Val	Val	Ser	Val	Pro	Phe	Phe	Leu	Cys
			260					265				270			
Phe	Leu	Tyr	Ser	Trp	Trp	Leu	Ala	Glu	Ser	Ala	Arg	Trp	Leu	Leu	Thr
		275					280					285			
Thr	Gly	Arg	Leu	Asp	Trp	Gly	Leu	Gln	Glu	Leu	Trp	Arg	Val	Ala	Ala
	290					295					300				
Ile	Asn	Gly	Lys	Gly	Ala	Val	Gln	Asp	Thr	Leu	Thr	Pro	Glu	Val	Leu
305					310						315				320
Leu	Ser	Ala	Met	Arg	Glu	Glu	Leu	Ser	Met	Gly	Gln	Pro	Pro	Ala	Ser
				325					330					335	
Leu	Gly	Thr	Leu	Leu	Arg	Met	Pro	Gly	Leu	Arg	Phe	Arg	Thr	Cys	Ile
			340					345					350		
Ser	Thr	Leu	Cys	Trp	Phe	Ala	Phe	Gly	Phe	Thr	Phe	Phe	Gly	Leu	Ala
		355					360					365			
Leu	Asp	Leu	Gln	Ala	Leu	Gly	Ser	Asn	Ile	Phe	Leu	Leu	Gln	Met	Phe
	370					375						380			
Ile	Gly	Val	Val	Asp	Ile	Pro	Ala	Lys	Met	Gly	Ala	Leu	Leu	Leu	Leu
385					390						395				400
Ser	His	Leu	Gly	Arg	Arg	Pro	Thr	Leu	Ala	Ala	Ser	Leu	Leu	Leu	Ala
				405					410					415	
Gly	Leu	Cys	Ile	Leu	Ala	Asn	Thr	Leu	Val	Pro	His	Glu	Met	Gly	Ala
			420					425					430		
Leu	Arg	Ser	Ala	Leu	Ala	Val	Leu	Gly	Leu	Gly	Gly	Val	Gly	Ala	Ala
		435					440					445			
Phe	Thr	Cys	Ile	Thr	Ile	Tyr	Ser	Ser	Glu	Leu	Phe	Pro	Thr	Val	Leu

450 455 460
 Arg Met Thr Ala Val Gly Leu Gly Gln Met Ala Ala Arg Gly Gly Ala
 465 470 475 480
 Ile Leu Gly Pro Leu Val Arg Leu Leu Gly Val His Gly Pro Trp Leu
 485 490 495
 Pro Leu Leu Val Tyr Gly Thr Val Pro Val Leu Ser Gly Leu Ala Ala
 500 505 510
 Leu Leu Leu Pro Glu Thr Gln Ser Leu Pro Leu Pro Asp Thr Ile Gln
 515 520 525
 Asn Val Gln Asn Gln Ala Val Lys Lys Ala Thr His Gly Thr Leu Gly
 530 535 540
 Asn Ser Val Leu Lys Ser Thr Gln Phe
 545 550

<210> 3106

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3106

Met Ala Ala Pro Pro Glu Pro Gly Glu Pro Glu Glu Arg Lys Ser Leu
 1 5 10 15
 Lys Leu Leu Gly Phe Leu Asp Val Glu Asn Thr Pro Cys Ala Arg His
 20 25 30
 Ser Ile Leu Tyr Gly Ser Leu Gly Ser Val Val Ala Gly Phe Gly His
 35 40 45
 Phe Leu Phe Thr Ser Arg Ile Arg Arg Ser Cys Asp Val Gly Val Gly
 50 55 60

Gly Phe Ile Leu Val Thr Leu Gly Cys Trp Phe His Cys Arg Tyr Asn
65 70 75 80
Tyr Ala Lys Gln Arg Ile Gln Glu Arg Ile Ala Arg Glu Glu Ile Lys
85 90 95
Lys Lys Ile Leu Tyr Glu Gly Thr His Leu Asp Pro Glu Arg Lys His
100 105 110
Asn Gly Ser Ser Ser Asn
115

<210> 3107

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3107

Met Glu Thr Cys Leu Leu Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
1 5 10 15
Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Arg Ser Ala Pro Ala
20 25 30
Pro Leu Pro Pro Ser Ala Pro Ala Pro Leu Pro Arg Ser Ala Pro Ala
35 40 45
Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
50 55 60
Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
65 70 75 80
Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Arg Ser Val Pro Ala
85 90 95
Pro Leu Pro Pro Ser Val Pro Ala Gln Gly Ser Ser Ser Leu Leu Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Trp Gly Arg His Ile Val Ser Phe Phe Leu Ile Ile Thr Gln Leu Gly
145 150 155 160
Phe Cys Cys Val Tyr Ile Val Phe Leu Ala Asp Asn Leu Lys Gln Val
165 170 175
Val Glu Ala Val Asn Ser Thr Thr Asn Asn Cys Tyr Ser Asn Glu Thr
180 185 190
Val Ile Leu Thr Pro Thr Met Asp Ser Arg Leu Tyr Met Leu Ser Phe
195 200 205
Leu Pro Phe Leu Val Leu Leu Val Leu Ile Arg Asn Leu Arg Ile Leu
210 215 220
Thr Ile Phe Ser Met Leu Ala Asn Ile Ser Met Leu Val Ser Leu Val
225 230 235 240
Ile Ile Ile Gln Tyr Ile Thr Gln Glu Ile Pro Asp Pro Ser Arg Leu
245 250 255
Pro Leu Val Ala Ser Trp Lys Thr Tyr Pro Leu Phe Phe Gly Thr Ala
260 265 270
Ile Phe Ser Phe Glu Ser Ile Gly Val Val Leu Pro Leu Glu Asn Lys
275 280 285
Met Lys Asn Ala Arg His Phe Pro Ala Ile Leu Ser Leu Gly Met Ser
290 295 300
Ile Val Thr Ser Leu Tyr Ile Gly Met Ala Ala Leu Gly Tyr Leu Arg
305 310 315 320
Phe Gly Asp Asp Ile Lys Ala Ser Ile Ser Leu Asn Leu Pro Asn Cys
325 330 335
Trp Leu Tyr Gln Ser Val Lys Leu Leu Tyr Ile Ala Gly Ile Leu Cys
340 345 350
Thr Tyr Ala Leu Gln Phe Tyr Val Pro Ala Glu Ile Ile Ile Pro Phe
355 360 365
Ala Ile Ser Arg Val Ser Thr Arg Trp Ala Leu Pro Leu Asp Leu Ser

370 375 380
 Ile Arg Leu Val Met Val Cys Leu Thr Cys Leu Leu Ala Ile Leu Ile
 385 390 395 400
 Pro Arg Leu Asp Leu Val Ile Ser Leu Met Gly Ser Val Ser Gly Thr
 405 410 415
 Ala Leu Ala Leu Ile Ile Pro Pro Leu Leu Glu Val Pro Thr Phe Tyr
 420 425 430
 Ser Glu Gly Met Ser Pro Leu Thr Ile Phe Lys Asp Ala Leu Ile Ser
 435 440 445
 Ile Leu Gly Phe Val Gly Phe Val Val Gly Thr Tyr Gln Ala Leu Asp
 450 455 460
 Glu Leu Leu Lys Ser Glu Asp Ser His Pro Phe Ser Asn Ser Thr Thr
 465 470 475 480
 Phe Val Arg

<210> 3109

<211> 225

<212> PRT

<213> Homo sapiens

<400> 3109

Met Pro Leu Ser Pro Leu Trp Ser Val Leu Phe Phe Ile Met Leu Phe
 1 5 10 15
 Cys Leu Gly Leu Ser Ser Met Phe Gly Asn Met Glu Gly Val Val Val
 20 25 30
 Pro Leu Gln Asp Leu Arg Val Ile Pro Pro Lys Trp Pro Lys Glu Val
 35 40 45

Leu Thr Gly Leu Ile Cys Leu Gly Thr Phe Leu Ile Gly Phe Ile Phe
50 55 60
Thr Leu Asn Ser Gly Gln Tyr Trp Leu Ser Leu Leu Asp Ser Tyr Ala
65 70 75 80
Gly Ser Ile Pro Leu Leu Ile Ile Ala Phe Cys Glu Met Phe Ser Val
85 90 95
Val Tyr Val Tyr Gly Val Asp Arg Phe Asn Lys Asp Ile Glu Phe Met
100 105 110
Ile Gly His Lys Pro Asn Ile Phe Trp Gln Val Thr Trp Arg Val Val
115 120 125
Ser Pro Leu Leu Met Leu Ile Ile Phe Leu Phe Phe Phe Val Val Glu
130 135 140
Val Ser Gln Glu Leu Thr Tyr Ser Ile Trp Asp Pro Gly Tyr Glu Glu
145 150 155 160
Phe Pro Lys Ser Gln Lys Ile Ser Tyr Pro Asn Trp Val Tyr Val Val
165 170 175
Val Val Ile Val Ala Gly Val Pro Ser Leu Thr Ile Pro Gly Tyr Ala
180 185 190
Ile Tyr Lys Leu Ile Arg Asn His Cys Gln Lys Pro Gly Asp His Gln
195 200 205
Gly Leu Val Ser Thr Leu Ser Thr Ala Ser Met Asn Gly Asp Leu Lys
210 215 220
Tyr
225

<210> 3110

<211> 367

<212> PRT

<213> Homo sapiens

<400> 3110

```

Met Cys Gly Asp Gly Thr Asn Asp Val Gly Ala Leu Lys His Ala Asp
  1             5             10             15
Val Gly Val Ala Leu Leu Ala Asn Ala Pro Glu Arg Val Val Glu Arg
      20             25             30
Arg Arg Arg Pro Arg Asp Ser Pro Thr Leu Ser Asn Ser Gly Ile Arg
      35             40             45
Ala Thr Ser Arg Thr Ala Lys Gln Arg Ser Gly Leu Pro Pro Ser Glu
      50             55             60
Glu Gln Pro Thr Ser Gln Arg Asp Arg Leu Ser Gln Val Leu Arg Asp
      65             70             75             80
Leu Glu Asp Glu Ser Thr Pro Ile Val Lys Leu Gly Asp Ala Ser Ile
      85             90             95
Ala Ala Pro Phe Thr Ser Lys Leu Ser Ser Ile Gln Cys Ile Cys His
      100            105            110
Val Ile Lys Gln Gly Arg Cys Thr Leu Val Thr Thr Leu Gln Met Phe
      115            120            125
Lys Ile Leu Ala Leu Asn Ala Leu Ile Leu Ala Tyr Ser Gln Ser Val
      130            135            140
Leu Tyr Leu Glu Gly Val Lys Phe Ser Asp Phe Gln Ala Thr Leu Gln
      145            150            155            160
Gly Leu Leu Leu Ala Gly Cys Phe Leu Phe Ile Ser Arg Ser Lys Pro
      165            170            175
Leu Lys Thr Leu Ser Arg Glu Arg Pro Leu Pro Asn Ile Phe Asn Leu
      180            185            190
Tyr Thr Ile Leu Thr Val Met Leu Gln Phe Phe Val His Phe Leu Ser
      195            200            205

```

Leu Val Tyr Leu Tyr Arg Glu Ala Gln Ala Arg Ser Pro Glu Lys Gln
 210 215 220
 Glu Gln Phe Val Asp Leu Tyr Lys Glu Phe Glu Pro Ser Leu Val Asn
 225 230 235 240
 Ser Thr Val Tyr Ile Met Ala Met Ala Met Gln Met Ala Thr Phe Ala
 245 250 255
 Ile Asn Tyr Lys Val Arg Pro Gly Pro Cys Pro Asn Ile His Cys Leu
 260 265 270
 Pro Thr Gln Pro His Pro Met Lys Pro Ser Val Pro His Pro His Arg
 275 280 285
 Ala Arg Pro Ser Trp Arg Ala Cys Pro Arg Thr Ser Pro Trp Cys Gly
 290 295 300
 Val Trp Gln Phe His Ser Trp Pro Ser Leu Ala Cys Ser Ser Ala Pro
 305 310 315 320
 Arg Pro Thr Ser Thr Ala Ser Leu Ala Ser Trp Thr Ser Leu Trp Ser
 325 330 335
 Ser Ser Trp Ser Leu Pro Arg Ser Cys Ser Trp Thr Ser Ala Trp Arg
 340 345 350
 Ser Trp Pro Thr Ala Ser Cys Ser Ser Ser Trp Gly Pro Arg Ser
 355 360 365

<210> 3111

<211> 384

<212> PRT

<213> Homo sapiens

<400> 3111

Met Gln Ala Phe Ser Glu Glu Glu Arg Lys Gln Trp Leu Glu Ala Leu

1	5	10	15
Gly Gly Lys Glu Ala Leu Ser His Ser Phe Asn Thr Ala Ile Ile Pro			
20	25	30	
Arg Pro Glu Gly Asn Ala Gln Leu Asp Lys Met Gly Phe Thr Ile Ile			
35	40	45	
Arg Lys Cys Ile Ser Ala Val Glu Thr Arg Gly Ile Asn Asp Gln Gly			
50	55	60	
Leu Tyr Arg Val Val Gly Val Ser Ser Lys Val Gln Arg Leu Leu Ser			
65	70	75	80
Met Leu Met Asp Val Lys Thr Cys Asn Glu Val Asp Leu Glu Asn Ser			
85	90	95	
Ala Asp Trp Glu Val Lys Thr Ile Thr Ser Ala Leu Lys Gln Tyr Leu			
100	105	110	
Arg Ser Leu Pro Glu Pro Leu Met Thr Tyr Glu Leu His Gly Asp Phe			
115	120	125	
Ile Val Pro Ala Lys Ser Gly Ser Pro Glu Ser Arg Val Asn Ala Ile			
130	135	140	
His Phe Leu Val His Lys Leu Pro Glu Lys Asn Lys Glu Met Leu Asp			
145	150	155	160
Ile Leu Val Lys His Leu Thr Asn Val Ser Asn His Ser Lys Gln Asn			
165	170	175	
Leu Met Thr Val Ala Asn Leu Gly Val Val Phe Gly Pro Thr Leu Met			
180	185	190	
Arg Pro Gln Glu Glu Thr Val Ala Ala Leu Met Asp Leu Lys Phe Gln			
195	200	205	
Asn Ile Val Val Glu Ile Leu Ile Glu Asn His Glu Lys Ile Phe Arg			
210	215	220	
Thr Pro Pro Asp Thr Thr Phe Pro Glu Pro Thr Cys Leu Ser Ala Ser			
225	230	235	240

Pro Pro Asn Ala Pro Pro Arg Gln Ser Lys Arg Gln Gly Gln Arg Thr
 245 250 255
 Lys Arg Pro Val Ala Val Tyr Asn Leu Cys Leu Glu Leu Glu Asp Gly
 260 265 270
 Asp Asn Pro Tyr Pro Ser Lys Glu Asp Thr Pro Thr Ser Ser Leu Asp
 275 280 285
 Ser Leu Ser Ser Pro Ser Pro Val Thr Thr Ala Val Pro Gly Pro Pro
 290 295 300
 Gly Pro Asp Lys Asn His Leu Leu Ala Asp Gly Gly Ser Phe Gly Asp
 305 310 315 320
 Trp Ala Ser Thr Ile Ile Arg Ser Arg Lys Ala Arg Ala Val Tyr Pro
 325 330 335
 Cys Glu Ala Glu His Ser Ser Glu Leu Ser Phe Glu Ile Gly Ala Ile
 340 345 350
 Phe Glu Asp Val Gln Thr Ser Arg Glu Pro Gly Trp Leu Glu Gly Thr
 355 360 365
 Leu Asn Gly Lys Arg Gly Leu Ile Pro Gln Asn Tyr Val Glu Leu Leu
 370 375 380

<210> 3112

<211> 815

<212> PRT

<213> Homo sapiens

<400> 3112

Met Ile Leu Gly Ala Met Leu Asn Ile Val Gln Asp Ser Ala Leu Leu
 1 5 10 15
 Glu Ala Ile Gly Cys Gln Met Glu Met Gly Gly Gly Glu Asn Asn Leu

20	25	30
Lys Ser Arg Ser Arg Thr Asn Ser Gly Ile Ser Ser Ala Ser Gly Gly		
35	40	45
Ser Thr Glu Pro Thr Thr Pro Asp Ser Glu Arg Pro Ala Gln Ala Leu		
50	55	60
Leu Arg Asp Tyr Ala Leu Asn Thr Asp Ser Ala Ala Gly Leu Leu Ile		
65	70	75
Arg Ser Ile His Leu Val Thr Gln Arg Leu Asn Ser Gln Trp Arg Gln		
85	90	95
Asp Met Ser Ile Ser Leu Ala Ala Leu Glu Leu Leu Ser Gly Leu Ala		
100	105	110
Lys Val Lys Val Met Val Asp Ser Gly Asp Arg Lys Arg Ala Ile Ser		
115	120	125
Ser Val Cys Thr Tyr Ile Val Tyr Gln Cys Ser Arg Pro Ala Pro Leu		
130	135	140
His Ser Arg Asp Leu His Ser Met Ile Val Ala Ala Phe Gln Cys Leu		
145	150	155
Cys Val Trp Leu Thr Glu His Pro Asp Met Leu Asp Glu Lys Asp Cys		
165	170	175
Leu Lys Glu Val Leu Glu Ile Val Glu Leu Gly Ile Ser Gly Ser Lys		
180	185	190
Ser Lys Asn Asn Gly Gln Glu Val Lys Tyr Lys Gly Asp Lys Glu Pro		
195	200	205
Asn Pro Ala Ser Met Arg Val Lys Asp Ala Ala Glu Ala Thr Leu Thr		
210	215	220
Cys Ile Met Gln Leu Leu Gly Ala Phe Pro Ser Pro Ser Gly Pro Ala		
225	230	235
Ser Pro Cys Ser Leu Val Asn Glu Thr Thr Leu Ile Lys Tyr Ser Arg		
245	250	255

Leu Pro Thr Ile Asn Lys His Ser Phe Arg Tyr Phe Val Leu Asp Asn
260 265 270

Ser Val Ile Leu Ala Met Leu Glu Gln Pro Leu Gly Asn Glu Gln Asn
275 280 285

Asp Phe Phe Pro Ser Val Thr Val Leu Val Arg Gly Met Ser Gly Arg
290 295 300

Leu Ala Trp Ala Gln Gln Leu Cys Leu Leu Pro Arg Gly Ala Lys Ala
305 310 315 320

Asn Gln Lys Leu Phe Val Pro Glu Pro Arg Pro Val Pro Lys Asn Asp
325 330 335

Val Gly Phe Lys Tyr Ser Val Lys His Arg Pro Phe Pro Glu Glu Val
340 345 350

Asp Lys Ile Pro Phe Val Lys Ala Asp Leu Ser Ile Pro Asp Leu His
355 360 365

Glu Ile Val Thr Glu Glu Leu Glu Glu Arg His Glu Lys Leu Arg Ser
370 375 380

Gly Met Ala Gln Gln Ile Ala Tyr Glu Ile His Leu Glu Gln Gln Ser
385 390 395 400

Glu Glu Glu Leu Gln Lys Arg Ser Phe Pro Asp Pro Val Thr Asp Cys
405 410 415

Lys Pro Pro Pro Pro Ala Gln Glu Phe Gln Thr Ala Arg Leu Phe Leu
420 425 430

Ser His Phe Gly Phe Leu Ser Leu Glu Ala Leu Lys Glu Pro Ala Asn
435 440 445

Ser Arg Leu Pro Pro His Leu Ile Ala Leu Asp Ser Thr Ile Pro Gly
450 455 460

Phe Phe Asp Asp Ile Gly Tyr Leu Asp Leu Leu Pro Cys Arg Pro Phe
465 470 475 480

Asp Thr Val Phe Ile Phe Tyr Met Lys Pro Gly Gln Lys Thr Asn Gln

485	490	495
Glu Ile Leu Lys Asn Val Glu Ser Ser Arg Thr Val Gln Pro His Phe		
500	505	510
Leu Glu Phe Leu Leu Ser Leu Gly Trp Ser Val Asp Val Gly Arg His		
515	520	525
Pro Gly Trp Thr Gly His Val Ser Thr Ser Trp Ser Ile Asn Cys Cys		
530	535	540
Asp Asp Gly Glu Gly Ser Gln Gln Glu Glu Val Ile Ser Ser Glu Asp		
545	550	555
Ile Gly Ala Ser Ile Phe Asn Gly Gln Lys Lys Val Leu Tyr Tyr Ala		
565	570	575
Asp Ala Leu Thr Glu Ile Ala Phe Val Val Pro Ser Pro Val Glu Ser		
580	585	590
Leu Thr Asp Ser Leu Glu Ser Asn Ile Ser Asp Gln Asp Ser Asp Ser		
595	600	605
Asn Met Asp Leu Met Pro Gly Ile Leu Lys Gln Pro Ser Leu Thr Leu		
610	615	620
Glu Leu Phe Pro Asn His Thr Asp Asn Leu Asn Ser Ser Gln Arg Leu		
625	630	635
Gly Pro Ser Ser Arg Met Arg Lys Leu Pro Gln Gly Arg Pro Val Pro		
645	650	655
Pro Leu Gly Pro Glu Thr Arg Val Ser Val Val Trp Val Glu Arg Tyr		
660	665	670
Asp Asp Ile Glu Asn Phe Pro Leu Ser Glu Leu Met Thr Glu Ile Ser		
675	680	685
Thr Gly Val Glu Thr Thr Ala Asn Ser Ser Thr Ser Leu Arg Ser Thr		
690	695	700
Thr Leu Glu Lys Glu Val Pro Val Ile Phe Ile His Pro Leu Asn Thr		
705	710	715
		720

Gly Leu Phe Arg Ile Lys Ile Gln Gly Ala Thr Gly Lys Phe Asn Met

725

730

735

Val Ile Pro Leu Val Asp Gly Met Ile Val Ser Arg Arg Ala Leu Gly

740

745

750

Phe Leu Val Arg Gln Thr Val Ile Asn Ile Cys Arg Arg Lys Arg Leu

755

760

765

Glu Ser Asp Ser Tyr Ser Pro Pro His Val Arg Arg Lys Gln Lys Ile

770

775

780

Thr Asp Ile Val Asn Lys Tyr Arg Asn Lys Gln Leu Glu Pro Glu Phe

785

790

795

800

Tyr Thr Ser Leu Phe Gln Glu Val Gly Leu Lys Asn Cys Ser Ser

805

810

815

<210> 3113

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3113

Met Gly Thr Ser Ala Thr Pro Trp Ser Ala Phe Thr Arg Pro Gly Asn

1

5

10

15

Thr Ala Gln Ser Leu Arg Pro Gly Arg Pro Leu Gly Ser Arg Gly Gly

20

25

30

Glu Ala Val Gly Val Ala Ser Gly Arg Arg Ser Arg Glu Pro His Phe

35

40

45

Pro Glu Cys Arg Ala Gln Pro Arg Pro Ala Arg Pro Ala Pro Arg Gly

50

55

60

Arg Gly Ser Arg Gly Leu Arg Arg Glu Asp Ala Lys Arg Pro Pro Gly

65 70 75 80
 Leu Arg Gly Ala Ala Gln Glu Ser Ala Arg Pro Pro Gly Ala Arg Ala
 85 90 95
 Gly Leu Val Arg Phe Arg
 100

<210> 3114

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3114

Met Val Ser Lys His Val Pro Trp Ser Pro Ala Ser Lys His Ser Ile
 1 5 10 15
 Ala His Thr Ala Ser Leu Ser Leu Gly Ser Ser His Thr Phe Ser Arg
 20 25 30
 Val Arg Ala Val Ser Val Gly Ser Gly Glu Ala Thr Glu Thr Ala Thr
 35 40 45
 Gly Ser Leu Lys Ser Ala Arg Ala Ser Leu Gly Arg Cys Leu Glu Asn
 50 55 60
 Thr Pro Gly Asp Ile Val Ser Ser Leu Ala Ser Glu Met Leu Cys Ser
 65 70 75 80
 Tyr Phe Arg Ser Ser Leu Lys Leu Ser Gly Met Leu Pro Ser Leu Ser
 85 90 95
 Cys Phe Ser Ser Cys Cys Gly Pro Gln Val Gln Gly Leu Thr Ser Glu
 100 105 110
 Cys

<210> 3115

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3115

Met Gln Val Gln Leu Pro His Pro His Ser Leu Gly Thr Asn Ala Gly

1 5 10 15

Ala Ala Ser Pro Ser Pro Leu Phe Arg His Lys Cys Arg Cys Ser Phe

20 25 30

Pro Ile Pro Thr Leu Arg Ala Gln Met Gln Val Gln Leu Pro His Pro

35 40 45

His Ser Leu Gly Thr Asn Ala Gly Ala Ala Ser Pro Ser Pro Leu Phe

50 55 60

Arg His Lys Cys Arg Cys Ser Phe Pro Ile Pro Thr Leu Arg Ala Gln

65 70 75 80

Met Gln Val Gln Leu Pro His Pro His Ser Leu Gly Thr Asn Ala Gly

85 90 95

Ala Ala Ser Pro Ser Pro Leu Leu Gly His Lys Cys Arg Cys Ser Phe

100 105 110

Pro Ile Pro Thr Leu Arg Ala Gln Met Gln Val Gln Leu Pro His Pro

115 120 125

His Ser Leu Gly Thr Asn Ala Gly Ala Ala Ser Pro Ser Pro Leu Leu

130 135 140

Gly His Lys Cys Arg Cys Ser Phe Pro Ile Pro Thr Leu

145 150 155

<210> 3116

<211> 525

<212> PRT

<213> Homo sapiens

<400> 3116

Met Ala Gly Leu Trp Leu Gly Leu Val Trp Gln Lys Leu Leu Leu Trp

1 5 10 15

Gly Ala Ala Ser Ala Leu Ser Leu Ala Gly Ala Ser Leu Val Leu Ser

20 25 30

Leu Leu Gln Arg Val Ala Ser Tyr Ala Arg Lys Trp Gln Gln Met Arg

35 40 45

Pro Ile Pro Thr Val Ala Arg Ala Tyr Pro Leu Val Gly His Ala Leu

50 55 60

Leu Met Lys Pro Asp Gly Arg Glu Phe Phe Gln Gln Ile Ile Glu Tyr

65 70 75 80

Thr Glu Glu Tyr Arg His Met Pro Leu Leu Lys Leu Trp Val Gly Pro

85 90 95

Val Pro Met Val Ala Leu Tyr Asn Ala Glu Asn Val Glu Val Ile Leu

100 105 110

Thr Ser Ser Lys Gln Ile Asp Lys Ser Ser Met Tyr Lys Phe Leu Glu

115 120 125

Pro Trp Leu Gly Leu Gly Leu Leu Thr Ser Thr Gly Asn Lys Trp Arg

130 135 140

Ser Arg Arg Lys Met Leu Thr Pro Thr Phe His Phe Thr Ile Leu Glu

145 150 155 160

Asp Phe Leu Asp Ile Met Asn Glu Gln Ala Asn Ile Leu Val Lys Lys

165 170 175

Leu Glu Lys His Ile Asn Gln Glu Ala Phe Asn Cys Phe Phe Tyr Ile
180 185 190

Thr Leu Cys Ala Leu Asp Ile Ile Cys Glu Thr Ala Met Gly Lys Asn
195 200 205

Ile Gly Ala Gln Ser Asn Asp Asp Ser Glu Tyr Val Arg Ala Val Tyr
210 215 220

Arg Met Ser Glu Met Ile Phe Arg Arg Ile Lys Met Pro Trp Leu Trp
225 230 235 240

Leu Asp Leu Trp Tyr Leu Met Phe Lys Glu Gly Trp Glu His Lys Lys
245 250 255

Ser Leu Lys Ile Leu His Thr Phe Thr Asn Ser Val Ile Ala Glu Arg
260 265 270

Ala Asn Glu Met Asn Ala Asn Glu Asp Cys Arg Gly Asp Gly Arg Gly
275 280 285

Ser Ala Pro Ser Lys Asn Lys Arg Arg Ala Phe Leu Asp Leu Leu Leu
290 295 300

Ser Val Thr Asp Asp Glu Gly Asn Arg Leu Ser His Glu Asp Ile Arg
305 310 315 320

Glu Glu Val Asp Thr Phe Met Phe Glu Gly His Asp Thr Thr Ala Ala
325 330 335

Ala Ile Asn Trp Ser Leu Tyr Leu Leu Gly Ser Asn Pro Glu Val Gln
340 345 350

Lys Lys Val Asp His Glu Leu Asp Asp Val Phe Gly Lys Ser Asp Arg
355 360 365

Pro Ala Thr Val Glu Asp Leu Lys Lys Leu Arg Tyr Leu Glu Cys Val
370 375 380

Ile Lys Glu Thr Leu Arg Leu Phe Pro Ser Val Pro Leu Phe Ala Arg
385 390 395 400

Ser Val Ser Glu Asp Cys Glu Val Ala Gly Tyr Arg Val Leu Lys Gly

405	410	415
Thr Glu Ala Val Ile Ile Pro Tyr Ala Leu His Arg Asp Pro Arg Tyr		
420	425	430
Phe Pro Asn Pro Glu Glu Phe Gln Pro Glu Arg Phe Phe Pro Glu Asn		
435	440	445
Ala Gln Gly Arg His Pro Tyr Ala Tyr Val Pro Phe Ser Ala Gly Pro		
450	455	460
Arg Asn Cys Ile Gly Gln Lys Phe Ala Val Met Glu Glu Lys Thr Ile		
465	470	475
Leu Ser Cys Ile Leu Arg His Phe Trp Ile Glu Ser Asn Gln Lys Arg		
485	490	495
Glu Glu Leu Gly Leu Glu Gly Gln Leu Ile Leu Arg Pro Ser Asn Gly		
500	505	510
Ile Trp Ile Lys Leu Lys Arg Arg Asn Ala Asp Glu Arg		
515	520	525

<210> 3117

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3117

Met Leu Thr Glu Val Met Glu Val Trp His Gly Leu Val Ile Ala Val		
1	5	10
Val Ser Leu Phe Leu Gln Ala Cys Phe Leu Thr Ala Ile Asn Tyr Leu		
20	25	30
Leu Ser Arg His Met Ala His Lys Ser Glu Gln Ile Leu Lys Ala Ala		
35	40	45

Ser Leu Gln Val Pro Arg Pro Ser Pro Gly His His His Pro Pro Ala
 50 55 60
 Val Lys Glu Met Lys Glu Thr Gln Thr Glu Arg Asp Ile Pro Met Ser
 65 70 75 80
 Asp Ser Leu Tyr Arg His Asp Ser Asp Thr Pro Ser Asp Ser Leu Asp
 85 90 95
 Ser Ser Cys Ser Ser Pro Pro Ala Cys Gln Ala Thr Glu Asp Val Asp
 100 105 110
 Tyr Thr Gln Val Val Phe Ser Asp Pro Gly Glu Leu Lys Asn Asp Ser
 115 120 125
 Pro Leu Asp Tyr Glu Asn Ile Lys Glu Ile Thr Asp Tyr Val Asn Val
 130 135 140
 Asn Pro Glu Arg His Lys Pro Ser Phe Trp Tyr Phe Val Asn Pro Ala
 145 150 155 160
 Leu Ser Glu Pro Ala Glu Tyr Asp Gln Val Ala Met
 165 170

<210> 3118

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3118

Met Phe Ser Cys Leu Lys Lys Asn Lys His His Gln Gln Pro Phe Pro
 1 5 10 15
 Met Gly Ser Ser Ser Arg Cys Tyr His Lys Arg Asp Arg Gln Met Asp
 20 25 30
 Ile Ile Ala Lys Arg Leu Ser Asn Trp Val Pro Arg Ser Arg Gly Val

35 40 45
 Glu Pro Leu Phe Arg Thr Val Gln Val Lys Gln Gly Ala Gly Asn Lys
 50 55 60
 Ala Gly Tyr Tyr Asn Pro Thr Asn Trp Val Pro Arg Ser Gln Gly Cys
 65 70 75 80
 Gly Ala Pro Leu Gln Asp Cys Thr Gly Glu Ala Gly Gly Trp Glu Gln
 85 90 95
 Gly Arg Leu Leu
 100

<210> 3119

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3119

Met Pro Arg Ser Ser Val Arg Phe Ser Leu Phe Pro His Val Gln Pro
 1 5 10 15
 Ile Val Phe Lys Glu Lys Leu Thr Met Lys Thr Gly Leu Leu Met Glu
 20 25 30
 Glu Lys Leu Glu Cys Ser Leu Trp Cys Cys Leu Ser Asp Pro Ser Ile
 35 40 45
 Pro Gly Arg Cys Cys Val Leu Glu Arg His Ile Val Pro Trp Met Gln
 50 55 60
 Gln Leu His Gln Gln Trp Lys Trp Leu Ile Cys Gly Leu Cys Arg Leu
 65 70 75 80
 Tyr Asn Leu Pro Lys His Pro Asn Val Glu Met Pro Asp Gln Pro Leu
 85 90 95

Pro Met Gly Gln Asn Gly Thr Thr Glu Glu Val Thr Ser Lys Glu Glu
 100 105 110
 Glu Glu Glu Glu Met Asp Glu Asp Ile Glu Asp Leu Asp His Cys Glu
 115 120 125
 Met Lys Glu Glu Pro Thr Ser Glu Lys Lys Leu Glu Asp Glu Gly Thr
 130 135 140
 Glu Lys Glu Asn Trp Ala Ile Leu Glu Lys Ile Arg Lys Thr Glu Arg
 145 150 155 160
 Gln Gly His Leu Asn Val Leu Thr Leu Ile Val Leu Cys Thr Val Ile
 165 170 175
 Phe Arg Ser

<210> 3120

<211> 742

<212> PRT

<213> Homo sapiens

<400> 3120

Met Glu Ser Gly Thr Ser Ser Pro Gln Pro Pro Gln Leu Asp Pro Leu
 1 5 10 15
 Asp Ala Phe Pro Gln Lys Gly Leu Glu Pro Gly Asp Ile Ala Val Leu
 20 25 30
 Val Leu Tyr Phe Leu Phe Val Leu Ala Val Gly Leu Trp Val Gly Ser
 35 40 45
 Pro Ser Val Ala Gln Gly Thr Arg Thr Gln Trp Trp Gln Ser Trp Leu
 50 55 60
 Thr Pro Ala Ser Thr Ser Trp Ala Gln Val Ile Leu Ser Pro Arg Leu

65	70	75	80
Pro Asp Thr Glu Glu Val Leu Ser Thr Arg Asn Arg Leu Ser Pro Asp			
85	90	95	
Thr Lys Pro Leu Gly Ala Leu Ile Leu Asn Phe Gln Val Ser Arg Ile			
100	105	110	
Ser Thr Val Lys Thr Lys Arg Asp Thr Val Lys Gly Tyr Phe Leu Ala			
115	120	125	
Gly Gly Asp Met Val Trp Trp Pro Val Gly Ala Ser Leu Phe Ala Ser			
130	135	140	
Asn Val Gly Ser Gly His Phe Ile Gly Leu Ala Gly Ser Gly Ala Ala			
145	150	155	160
Thr Gly Ile Ser Val Ser Ala Tyr Glu Leu Asn Gly Leu Phe Ser Val			
165	170	175	
Leu Met Leu Ala Trp Ile Phe Leu Pro Ile Tyr Ile Ala Gly Gln Val			
180	185	190	
Thr Thr Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile			
195	200	205	
Pro Ile Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys			
210	215	220	
Ile Ser Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu			
225	230	235	240
His Leu Asp Leu Tyr Leu Ala Ile Ala Gly Leu Leu Ala Ile Thr Ala			
245	250	255	
Val Tyr Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala			
260	265	270	
Leu Gln Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr			
275	280	285	
Ser Phe Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe			
290	295	300	

出証特 2 0 0 4 - 3 0 5 9 6 6 0

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<210> 3121

<211> 368

<212> PRT

<213> Homo sapiens

<400> 3121

Met Met Phe Arg Ser Asp Arg Met Trp Ser Cys His Trp Lys Trp Lys

1 5 10 15

Pro Ser Pro Leu Leu Phe Leu Phe Ala Leu Tyr Ile Met Cys Val Pro

20 25 30

His Ser Val Trp Gly Cys Ala Asn Cys Arg Val Val Leu Ser Asn Pro

35 40 45

Ser Gly Thr Phe Thr Ser Pro Cys Tyr Pro Asn Asp Tyr Pro Asn Ser

50 55 60

Gln Ala Cys Met Trp Thr Leu Arg Ala Pro Thr Gly Tyr Ile Ile Gln

65 70 75 80

Ile Thr Phe Asn Asp Phe Asp Ile Glu Glu Ala Pro Asn Cys Ile Tyr

85 90 95

Asp Ser Leu Ser Leu Asp Asn Gly Glu Ser Gln Thr Lys Phe Cys Gly

100 105 110

Ala Thr Ala Lys Gly Leu Ser Phe Asn Ser Ser Ala Asn Glu Met His

115 120 125

Val Ser Phe Ser Ser Asp Phe Ser Ile Gln Lys Lys Gly Phe Asn Ala

130 135 140

Ser Tyr Ile Arg Val Ala Val Ser Leu Arg Asn Gln Lys Val Ile Leu

145 150 155 160

Pro Gln Thr Ser Asp Ala Tyr Gln Val Ser Val Ala Lys Ser Ile Ser

165 170 175

Ile Pro Glu Leu Ser Ala Phe Thr Leu Cys Phe Glu Ala Thr Lys Val

180	185	190
Gly His Glu Asp Ser Asp Trp Thr Ala Phe Ser Tyr Ser Asn Ala Ser		
195	200	205
Phe Thr Gln Leu Leu Ser Phe Gly Lys Ala Lys Ser Gly Tyr Phe Leu		
210	215	220
Ser Ile Ser Asp Ser Gln Cys Leu Leu Asn Asn Ala Leu Pro Val Lys		
225	230	235
Glu Lys Glu Asp Ile Phe Ala Glu Ser Phe Glu Gln Leu Cys Leu Val		
245	250	255
Trp Asn Asn Ser Leu Gly Ser Ile Gly Val Asn Phe Lys Arg Asn Tyr		
260	265	270
Glu Thr Val Pro Cys Asp Ser Thr Ile Ser Lys Val Ile Pro Gly Asn		
275	280	285
Gly Lys Leu Leu Leu Gly Ser Asn Gln Asn Glu Ile Val Ser Leu Lys		
290	295	300
Gly Asp Ile Tyr Asn Phe Arg Leu Trp Asn Phe Thr Met Asn Ala Lys		
305	310	315
Ile Leu Ser Asn Leu Ser Cys Asn Val Lys Gly Asn Val Val Asp Trp		
325	330	335
Gln Asn Asp Phe Trp Asn Ile Pro Asn Leu Ala Leu Lys Ala Glu Ser		
340	345	350
Asn Leu Ser Cys Gly Glu Phe Val Ala Tyr Ser Phe Phe Phe Phe Phe		
355	360	365

<210> 3122

<211> 195

<212> PRT

<213> Homo sapiens

<400> 3122

Met Ile Leu Ala Tyr Cys Asn Leu His Leu Ser Ser Ser Ser Asn Ser
 1 5 10 15
 Pro Ala Ser Ala Ser Gln Ile Ala Met Ile Thr Gly Ala His His His
 20 25 30
 Ala Trp Leu Ile Phe Val Phe Leu Val Gly Met Gly Phe His His Val
 35 40 45
 Gly Gln Thr Gly Leu Glu Leu Leu Thr Ser Gly His Leu Pro Ala Ser
 50 55 60
 Ala Ser Gln Gly Ala Gly Ile Thr Gly Val Thr Ser Ile Leu Gly Leu
 65 70 75 80
 Phe Ile Tyr Leu Phe Phe Glu Met Glu Ser Cys Ser Val Ala Leu Ala
 85 90 95
 Gly Val Gln Trp His Gly Leu Gly Ser Leu Gln Pro Gln Pro Pro Gly
 100 105 110
 Phe Lys Arg Phe Ser Cys Leu Ser Leu Ser Gly Ser Trp Asp Tyr Arg
 115 120 125
 Arg Val Pro Pro His Pro Ala Ser Leu Pro Ile Phe Leu Met Pro Lys
 130 135 140
 Arg Thr Tyr Tyr Ile Tyr Thr Leu Phe Cys Thr Leu Leu Pro Val Leu
 145 150 155 160
 Asp Ser Leu Gly Thr Ile Pro Tyr Pro Leu Ser Ile Tyr Lys Glu Leu
 165 170 175
 Leu Phe His Cys Phe Pro Gln Arg Ser Ser Ile Pro Pro Asp Met Pro
 180 185 190
 Lys Phe Ile
 195

<210> 3123

<211> 278

<212> PRT

<213> Homo sapiens

<400> 3123

Met Ser Gly Leu Thr Val Ser Gln Ser Gly Pro Ser Ser Gly Ser Gly

1 5 10 15

Gly Gln Thr Ser Gly Leu Ala Val Ser Gln Ser Gly Pro Ser Ser Gly

20 25 30

Ser Gly Gly Gln Thr Ser Gly Leu Ala Val Ser Ala Glu Trp Pro Phe

35 40 45

Leu Arg Leu Trp Arg Thr Asp Val Arg Ala Arg Gly Val Thr Glu Trp

50 55 60

Pro Phe Leu Arg Leu Trp Arg Thr Asp Val Arg Ala Arg Gly Val Ser

65 70 75 80

Arg Val Ala Leu Pro Pro Ala Leu Glu Asp Arg Ser Leu Gly Ser Arg

85 90 95

Cys His Arg Val Ala Leu Pro Pro Ala Leu Glu Asp Arg Ser Leu Gly

100 105 110

Ser Arg Cys Gln Gln Ser Gly Pro Ser Ser Gly Ser Gly Gly Gln Thr

115 120 125

Ser Gly Leu Ala Val Ser Gln Ser Gly Pro Ser Ser Gly Ser Gly Arg

130 135 140

Gln Thr Ser Gly Ile Thr Val Ser Ala Glu Trp Pro Phe Leu Trp Leu

145 150 155 160

Trp Arg Thr Asp Val Trp Asp His Gly Val Ser Arg Gly Ala Leu Pro

165 170 175

Leu Glu Pro Leu Val Gly Asn Leu Leu Val Ala Ser Phe Gly Phe Trp
 180 185 190
 Trp Leu Val Phe Leu Phe Ser Phe Phe Ile Phe Phe Phe Phe Asn Leu
 195 200 205
 Ile Arg Asp Arg Val Cys Leu Cys Ser Pro Gly Trp Ser Gln Thr Pro
 210 215 220
 Gly Leu Lys Gln Ser Ser Cys Ser Val Leu Thr Lys Cys Cys Gly Tyr
 225 230 235 240
 Arg Arg Glu Ser Trp Gly Pro Ala Cys Trp Cys Phe Leu Thr Cys Gly
 245 250 255
 Pro Ile Thr Ala Val Ser Ala Phe Arg Val Thr Trp Pro Ser Pro Leu
 260 265 270
 Leu Glu His Pro Leu Leu
 275

<210> 3124

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3124

Met Gly Asn Ser Leu Ser Ile Arg Pro Asp Ser Thr Met Gly Asn Ser
 1 5 10 15
 Thr Pro Val Pro Pro Asp Ser Ser Leu Gly Tyr Ile Ile His His Trp
 20 25 30
 Asn Gln Phe Asp Pro Asp Thr Leu Lys Gly Lys Cys Ile Ile Phe Phe
 35 40 45
 Cys Asn Thr Val Trp Pro His Tyr Glu Leu Pro Ser Pro Gln Gln Trp

50 55 60
 Ala Val Ser Gly Ser Leu Asn Asp Asp Thr Ile Leu Gln Leu Asp Leu
 65 70 75 80
 Leu Cys Lys Arg Leu Gly Arg Trp Ser Glu Val Pro Tyr Val Gln Ala
 85 90 95
 Phe Ile Lys Ile Ser Lys Thr
 100

<210> 3125

<211> 349

<212> PRT

<213> Homo sapiens

<400> 3125

Met Ala Pro Arg Ser Leu Leu Leu Leu Leu Ser Gly Ala Leu Ala Leu
 1 5 10 15
 Thr Asp Thr Trp Ala Gly Ser His Ser Leu Arg Tyr Phe Ser Thr Ala
 20 25 30
 Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Tyr Ile Ala Val Glu Tyr
 35 40 45
 Val Asp Asp Thr Gln Phe Leu Arg Phe Asp Ser Asp Ala Ala Ile Pro
 50 55 60
 Arg Met Glu Pro Arg Glu Pro Trp Val Glu Gln Glu Gly Pro Gln Tyr
 65 70 75 80
 Trp Glu Trp Thr Thr Gly Tyr Ala Lys Ala Asn Ala Gln Thr Asp Arg
 85 90 95
 Val Ala Leu Arg Asn Leu Leu Arg Arg Tyr Leu Glu Asn Gly Lys Glu
 100 105 110

Thr Leu Gln Arg Ala Asp Pro Pro Lys Ala His Val Ala His His Pro
 115 120 125
 Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
 130 135 140
 Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Glu Gln Thr
 145 150 155 160
 Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
 165 170 175
 Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr
 180 185 190
 Thr Cys His Val Gln His Glu Gly Leu Pro Gln Pro Leu Ile Leu Arg
 195 200 205
 Trp Glu Gln Ser Pro Gln Pro Thr Ile Pro Ile Val Gly Ile Val Ala
 210 215 220
 Gly Leu Val Val Leu Gly Ala Val Val Thr Gly Ala Val Val Ala Ala
 225 230 235 240
 Val Met Trp Arg Lys Lys Ser Ser Asp Arg Asn Arg Gly Ser Tyr Ser
 245 250 255
 Gln Ala Ala Ala Tyr Ser Val Val Ser Gly Asn Leu Met Ile Thr Trp
 260 265 270
 Trp Ser Ser Leu Phe Leu Leu Gly Val Leu Phe Gln Gly Tyr Leu Gly
 275 280 285
 Cys Leu Arg Ser His Ser Val Leu Gly Arg Arg Lys Ala Gln Leu Leu
 290 295 300
 Ser Val Ser Thr Ser Gln Thr Ser Ile Leu Ile Gln Glu Gln Phe Ser
 305 310 315 320
 His Gln Arg Thr Leu Ala Met Ser Gly Lys Met Phe Cys Cys His Asp
 325 330 335
 Trp Ser Glu Glu Lys Val Leu Pro Ala Ser Cys Gly Glu

340

345

<210> 3126

<211> 218

<212> PRT

<213> Homo sapiens

<400> 3126

Met Ala Ala Leu Ile Ala Glu Asn Phe Arg Phe Leu Ser Leu Phe Phe

1 5 10 15

Lys Ser Lys Asp Val Met Ile Phe Asn Gly Leu Val Ala Leu Gly Thr

20 25 30

Val Gly Ser Gln Glu Leu Phe Ser Val Val Ala Phe His Cys Pro Cys

35 40 45

Ser Pro Ala Arg Asn Tyr Leu Tyr Gly Leu Ala Ala Ile Gly Val Pro

50 55 60

Ala Leu Val Leu Phe Ile Ile Gly Ile Ile Leu Asn Asn His Thr Trp

65 70 75 80

Asn Leu Val Ala Glu Cys Gln His Arg Arg Thr Lys Asn Cys Ser Ala

85 90 95

Ala Pro Thr Phe Leu Leu Leu Ser Ser Ile Leu Gly Arg Ala Ala Val

100 105 110

Ala Pro Val Thr Trp Ser Val Ile Ser Leu Leu Arg Gly Glu Ala Tyr

115 120 125

Val Cys Ala Leu Ser Glu Phe Val Asp Pro Ser Ser Leu Thr Ala Arg

130 135 140

Glu Glu His Phe Pro Ser Ala His Ala Thr Glu Ile Leu Ala Arg Phe

145 150 155 160

Pro Cys Lys Glu Asn Pro Asp Asn Leu Ser Asp Phe Arg Glu Glu Val
 165 170 175
 Ser Arg Arg Leu Arg Tyr Glu Ser Gln Val Arg Ser Cys Ala Lys Gly
 180 185 190
 Ser Ser Ser Ser Leu Val Val Ala Gly Glu Arg Ser Gly Asp Gly Leu
 195 200 205
 Val Leu Lys Leu Gly Leu Val Leu Arg Gly
 210 215

<210> 3127

<211> 468

<212> PRT

<213> Homo sapiens

<400> 3127

Met Ala His Ser Val Pro Ser Asp Ser Arg Thr Ser Arg Arg Pro Thr
 1 5 10 15
 Thr Arg Pro His Ala Ala Arg Gly Ala Pro Arg Gly Ser Arg Arg Pro
 20 25 30
 Gly Arg Thr Pro Lys Trp Arg Leu Pro Arg Ile Ser Ala Arg Ala Pro
 35 40 45
 Tyr Arg Leu Arg Arg Leu Arg Arg His Thr Tyr Trp Pro Pro Arg Arg
 50 55 60
 Pro Val Ala Ala Ser Arg Cys Trp Pro Val Gly Ala Thr Pro Leu Gly
 65 70 75 80
 Ser Val Gly Gly Arg Thr Gly Lys Met Asp Ala Ala Thr Leu Thr Tyr
 85 90 95
 Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp Phe Pro Glu Thr Ser Glu

100 105 110
Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser Ile Phe Thr Glu Lys Asp
115 120 125
Glu Ile Leu Ser Asp Val Ala Ser Arg Leu Trp Phe Thr Tyr Arg Lys
130 135 140
Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro Thr Ser Asp Thr Gly Trp
145 150 155 160
Gly Cys Met Leu Arg Cys Gly Gln Met Ile Phe Ala Gln Ala Leu Val
165 170 175
Cys Arg His Leu Gly Arg Asp Trp Arg Trp Thr Gln Arg Lys Arg Gln
180 185 190
Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala Phe Ile Asp Arg Lys Asp
195 200 205
Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln Met Gly Val Gly Glu Gly
210 215 220
Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn Thr Val Ala Gln Val Leu
225 230 235 240
Lys Lys Leu Ala Val Phe Asp Thr Trp Ser Ser Leu Ala Val His Ile
245 250 255
Ala Met Asp Asn Thr Val Val Met Glu Glu Ile Arg Arg Leu Cys Arg
260 265 270
Thr Ser Val Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp
275 280 285
Arg His Cys Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro
290 295 300
Ser Pro Trp Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu
305 310 315 320
Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr Leu Lys His Cys Phe Met
325 330 335

Met Pro Gln Ser Leu Gly Val Ile Gly Gly Lys Pro Asn Ser Ala His

340

345

350

Tyr Phe Ile Gly Tyr Val Gly Glu Glu Leu Ile Tyr Leu Asp Pro His

355

360

365

Thr Thr Gln Pro Ala Val Glu Pro Thr Asp Gly Cys Phe Ile Pro Asp

370

375

380

Glu Ser Phe His Cys Gln His Pro Pro Cys Arg Met Ser Ile Ala Glu

385

390

395

400

Leu Asp Pro Ser Ile Ala Val Gly Phe Phe Cys Lys Thr Glu Asp Asp

405

410

415

Phe Asn Asp Trp Cys Gln Gln Val Lys Lys Leu Ser Leu Leu Gly Gly

420

425

430

Ala Leu Pro Met Phe Glu Leu Val Glu Leu Gln Pro Ser His Leu Ala

435

440

445

Cys Pro Asp Val Leu Asn Leu Ser Leu Gly Glu Ser Cys Gln Val Gln

450

455

460

Ile Leu Leu Met

465

<210> 3128

<211> 622

<212> PRT

<213> Homo sapiens

<400> 3128

Met Ala Thr Val Leu Ser Arg Ala Leu Lys Leu Pro Gly Lys Lys Ser

1

5

10

15

Pro Asp Leu Gly Glu Tyr Asp Pro Leu Thr Gln Ala Asp Ser Asp Glu

20	25	30
Ser Glu Asp Asp Leu Val Leu Asn Leu Gln Lys Asn Gly Gly Val Lys		
35	40	45
Asn Gly Lys Ser Pro Leu Gly Glu Ala Pro Lys Pro Asp Ser Asp Ala		
50	55	60
Glu Val Ala Glu Ala Ala Lys Pro His Leu Ser Glu Val Thr Thr Glu		
65	70	75
Gly Tyr Pro Ser Glu Pro Leu Gly Gly Leu Glu Gln Lys Ala Ala Ser		
85	90	95
Ser Leu Val Ser Tyr Val Arg Thr Ser Val Phe Leu Leu Thr Leu Gly		
100	105	110
Ile Ser Met Ile Leu Val Leu Leu Cys Ala Phe Leu Ile Pro Cys Pro		
115	120	125
Pro Arg Asp Leu His Ser Thr Trp Ser Arg His Leu Gly Ser Gln Gly		
130	135	140
Gly Gly Asp Leu Ser Pro Leu Glu Leu Ala Asp Val Asn Gly Asp Gly		
145	150	155
Leu Arg Asp Val Leu Leu Ser Phe Val Met Ser Arg Asn Gly Ser Ala		
165	170	175
Val Gly Val Ser Arg Pro Ala Ala Asn Leu Val Cys Pro Ser Gly Met		
180	185	190
Asn Gly Ser Thr Leu Trp Ser Ser Leu Leu Pro Glu Glu Ala Arg Asp		
195	200	205
Ile Thr Cys Leu Glu Leu Met Pro Gly Ser Leu Ala Glu Thr Ile Cys		
210	215	220
Leu Val Thr Gly Thr His Lys Met Leu Ser Ala Phe Asn Ala Thr Ser		
225	230	235
Gly Lys Ala Ile Trp Thr Leu Asn Pro Asn Tyr Leu Ser Asn Gly Thr		
245	250	255

Leu Ala Ala Pro Val Val Val Leu Pro Asp Leu Asp Glu Asp Gly Val
260 265 270
Arg Asp Leu Val Val Leu Ala Ile Gly Glu Leu Gln Pro Asp Leu Cys
275 280 285
Phe Leu Leu Val Ser Gly Arg Thr Gly Asn Pro Val Gly Arg Pro Val
290 295 300
Lys Tyr Asn Ile Val Gly Val Gly Asn Leu Ile Gly Pro Gln Val Tyr
305 310 315 320
Ile Thr Thr Asn Gly Ala Val Tyr Ile Leu Phe Gly Phe Gly Asn Ile
325 330 335
Gln Ala Val Ala Leu Arg Asp Ile Phe Val Gln Ala Gln Asn Arg Asp
340 345 350
Ser Ser Pro Pro Ser Leu Gln Ile Glu Glu Pro Glu Trp Glu Lys Arg
355 360 365
Arg Ser Ile Asn Leu Ser Glu Leu Ile Asp Val Tyr Ser Asp Gly Val
370 375 380
Glu Leu Leu Gln Met Val Lys Ala Pro Asp Ser Asn Cys Ser Asn Leu
385 390 395 400
Leu Ile Thr Thr Arg Gln Ser Leu Val Leu Leu Arg Gly Gln Asn Leu
405 410 415
Thr Pro Tyr Trp Ala Leu Arg Leu Gln Gly Leu Arg Ser Gln Pro Thr
420 425 430
Pro Gly Tyr Phe Thr Asp Asp Gln Thr Leu Asp Phe Leu Leu Gln Ile
435 440 445
Gln Asp Gly Val Gly Met Lys Lys Met Met Val Val Asp Gly Asp Ser
450 455 460
Gly Ser Ile Val Trp Ser Tyr Arg Ala Pro Cys His Met Lys Glu Thr
465 470 475 480
Pro Ala Thr Ser Ala Val Thr Ser Asp Gln Lys Ser Val Phe Leu Phe

485	490	495
Trp Ala Glu Gly Leu Ser Ala Ala Ser Pro Asn Ser Asp Ile Ile Leu		
500	505	510
Gly Thr Glu Pro Pro Ser Leu His His Leu Tyr Leu Leu His Pro Ala		
515	520	525
Phe Pro Ser Ile Leu Leu Asp Leu Ala Asn Thr Thr Gly Thr Val Thr		
530	535	540
Ala Ser Glu Val Gly Ile Asn Asp Leu Trp Lys Asp Ala Phe Tyr Val		
545	550	555
560		
Thr Arg Thr Thr Gly Pro Ser Ser Glu Gly His Pro Ala Ala Leu Val		
565	570	575
Val Ser Lys Leu Ser Leu Arg Trp Ala Leu Met Glu Gly Gln Met Ala		
580	585	590
Gln Leu Gln Glu Ser Thr Pro Lys Ile Gly Arg Gly Glu Leu Arg Arg		
595	600	605
Phe Leu Ser Arg Ile Lys Phe Val Glu Ala Pro Tyr Glu Ile		
610	615	620

<210> 3129

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3129

Met Val Arg Trp Val Pro Thr Arg Arg Val Val Val Ile Cys Asp Gly
1 5 10 15
Thr Cys Ser His Thr Leu Leu Cys Thr Pro Pro Gly Ser Pro Lys Ser
20 25 30

Pro His Ala Gly Ser Pro His Pro Ser Cys Ser Arg Lys His Val Arg
 35 40 45
 Lys Gln Ser Arg Arg Leu Leu Arg Gly Arg His Glu Ser Thr Leu Val
 50 55 60
 Leu Lys Pro Phe Pro Asn Val Leu Val Asp Cys Val Val Leu Pro Lys
 65 70 75 80
 Leu Pro Ala Ala Gly Ala Arg Glu Val Thr Pro Ala Gly Ala Ala Ala
 85 90 95
 Gly Gly Ser Pro Arg Trp Leu Ala Leu Phe Leu Phe Cys Phe Phe Phe
 100 105 110

<210> 3130

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3130

Met Ala Ile Lys Glu Ile Ser Asp Ala Leu Ile Asn Met Phe Val His
 1 5 10 15
 Ser Ala Asp Phe Thr Gly Thr Ser Cys Met Ser Asp Pro Leu Ser Gly
 20 25 30
 Trp Trp Gly Val Glu Asp Glu Phe Ser Leu Asn Glu Ile Cys Cys Leu
 35 40 45
 Cys Gly Pro Asp Ser Pro Arg Lys Arg His Thr Arg Thr Val Pro Asp
 50 55 60
 Pro Glu Glu Glu Arg Ala Leu Gln Ser Arg Ala Arg Gln Pro Gly His
 65 70 75 80
 Val Glu Arg Arg Gly Leu His Trp Glu Gly Leu Arg Thr Phe His Arg

85 90 95
 Val Cys Arg Ala Ala Tyr Leu Pro Gly Gly Ser Val Leu Ala Gly Arg
 100 105 110
 Gly Met Arg Glu Pro Cys Thr Pro Ala Arg Ala Phe Gly Arg Ser Ser
 115 120 125
 Thr Gln Val Arg Lys Ser Pro Val Pro Leu Ser Val
 130 135 140

<210> 3131

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3131

Met Trp Asp Pro Leu Ser Asp Gln Ala Ser Ser Leu Asn Val Arg Ser
 1 5 10 15
 Ala Gly Gln Gly Pro Gly Ile Trp Glu Leu Pro Gly Ser Gly Leu Gly
 20 25 30
 Cys Leu Arg Asp Pro Arg Ile Ser Ser Val Leu Cys Gly Leu Ala Glu
 35 40 45
 Gly Ser Gln Ala Lys Ser Ser Gly Ser Ala Val Thr Ala Gly Ala Leu
 50 55 60
 Gly Ser Gln Ala Thr Gly Asn Asn Ser Gly Leu Phe Lys Gln Lys Arg
 65 70 75 80
 Thr Leu Ser Lys Gly Ser Trp Gly Thr His Lys Ile Thr Lys Arg Ala
 85 90 95
 Glu Glu Tyr Ser Trp
 100

<210> 3132

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3132

Met His Ala Arg Tyr Ile Gly Thr Thr Val Phe Val Arg Gln Val Gly

1 5 10 15

Arg Tyr Leu Thr Leu Ala Ile Arg Met Pro Glu Asp Leu Ala Met Ser

20 25 30

Tyr Glu Glu Ser Gln Asp Leu Gln Leu Cys Val Asn Gly Cys Pro Leu

35 40 45

Ser Glu Arg Ile Asp Asp Gly Gln Gly Gln Val Ser Ala Ile Leu Gly

50 55 60

His Ser Leu Pro Arg Thr Ser Leu Val Gln Ala Trp Pro Gly Tyr Thr

65 70 75 80

Leu Glu Thr Ala Asn Thr Gln Cys His Glu Lys Met Pro Val Lys Asp

85 90 95

Ile Tyr Phe Gln Ser Cys Val Phe Asp Leu Leu Thr Thr Gly Asp Ala

100 105 110

Asn Phe Thr Ala Ala Ala His Ser Ala Leu Glu Asp Val Glu Ala Leu

115 120 125

His Pro Arg Lys Glu Arg Trp His Ile Phe Pro Ser Ser Gly Asn Gly

130 135 140

Thr Pro Arg Gly Gly Ser Asp Leu Ser Val Ser Leu Gly Leu Thr Cys

145 150 155 160

Leu Ile Leu Ile Val Phe Leu

165

<210> 3133

<211> 156

<212> PRT

<213> Homo sapiens

<400> 3133

Met	Glu	Gly	Val	Val	Gly	Pro	Gln	Ala	Ala	Thr	Cys	Arg	Leu	Ala	Ala
1				5						10				15	
His	Cys	Ile	Met	Leu	Val	Ser	Pro	Cys	Ser	Glu	Arg	Ala	Pro	Pro	Leu
				20				25					30		
Leu	Gly	Ile	Leu	Thr	His	Pro	Met	His	Met	Ala	Ala	Leu	Leu	Ala	Gly
				35				40					45		
Glu	Pro	Arg	Arg	Pro	Gly	Ser	Pro	Gln	Val	Pro	Ile	Cys	Ser	Ser	Phe
				50				55					60		
Thr	His	Trp	Ile	Leu	Ala	Arg	Gly	Gly	Ser	Arg	Cys	Asp	Thr	Val	Tyr
				65				70					75		80
Ala	Thr	Phe	Gly	Ile	Gly	Leu	Ile	Leu	Tyr	Asp	Thr	Asn	Thr	Val	Met
				85				90					95		
Ala	Ser	Ser	Gln	Leu	Leu	Thr	Ala	Ser	Gln	Leu	Leu	Ser	Val	Tyr	Tyr
				100				105					110		
Pro	Ile	Asn	Ser	Pro	Ala	Thr	Leu	Arg	Ala	Gly	Ile	Val	Thr	Ser	Ala
				115				120					125		
Leu	Thr	Gly	Glu	Glu	Thr	Glu	Ala	Gln	Arg	Gly	Leu	Ala	Asp	Leu	Ser
				130				135					140		
Glu	Ala	Thr	Gln	Pro	Val	Ser	Ser	Arg	Val	Gly	Ile				
				145				150					155		

<210> 3134

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3134

Met Ser Thr Ala Thr Arg Arg Val Cys Gly Lys Val Glu Gly Glu Pro
1 5 10 15
Glu Thr Pro Trp Ser Leu Leu Ser Leu Ala Gly Ser Phe Leu Pro Ala
20 25 30
Arg Ser Pro Gln Gly Thr Leu Glu Glu Glu Leu Ser Trp Ser Cys Arg
35 40 45
Gly Pro Gly Thr Gly Arg Ser Gly Gly Gly Pro Gln Gln Pro Arg Ile
50 55 60
Pro Glu Pro Ala Ala Arg Pro Gly Arg Ser Cys Ala Leu Pro Pro Pro
65 70 75 80
Gly Ala Arg Arg Ser Arg Gly Thr Phe Gln Glu Leu Pro Arg Ala Glu
85 90 95
Val Pro Gly Leu Gly Val Ala Ser Ser Cys Gln Ile Pro Cys Ser Pro
100 105 110
Gly Asp Pro Glu Lys His Arg Ala Ile Pro Asp Pro Gly Thr Phe Arg
115 120 125
Arg Leu Ala Ala Ile Trp Glu
130 135

<210> 3135

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3135

Met Ser Asp His Ala Gly Met Pro Asp Leu Val Leu His Pro Trp Trp

1 5 10 15

Gln Val Ser Leu Ser Trp Gly Arg Gly Lys Tyr Pro Ser Thr Pro Ser

20 25 30

Pro Ser Pro Leu Val Ala Ser Pro Ala Phe Leu Gly Gly Lys Asn Pro

35 40 45

Pro Ile Ala Tyr Phe His Ala Pro Thr Ser Tyr Leu Cys Ala Pro Ile

50 55 60

Pro Tyr Phe His Ala Pro Ile Ser Tyr Leu Cys Thr Pro Ile Pro Tyr

65 70 75 80

Phe Arg Ala Pro Thr Leu Ser Leu Leu Phe Trp Arg Gly Arg Lys Pro

85 90 95

His Pro Phe Ser Met Ser Leu Leu Phe Ser Leu Gly Leu Pro Pro Ser

100 105 110

Leu Cys Phe His Leu Pro Phe Leu Leu Leu Leu Pro

115 120

<210> 3136

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3136

Met Ser Ser Cys Pro Gly Cys Ala Leu Pro Lys Gly Met Cys Thr Ser
 1 5 10 15
 Lys Pro Leu Leu Ala Glu Leu Pro Gln Asp His Ala Ser Gly Pro Pro
 20 25 30
 Pro Ala Thr Pro Ala Cys Leu Glu Gln Pro Pro His Arg Arg Pro Arg
 35 40 45
 Leu Ser Gly Pro Ala Gly Gly Ser Ala Arg Pro Pro Pro Arg Trp Trp
 50 55 60
 Arg Arg Ser Pro Leu Ala Ser Gly Arg Cys Pro Arg Tyr Gly Pro Gly
 65 70 75 80
 Ser Thr Cys Ser Pro Ala His Pro Ser Leu Ala Arg His Leu Ala Glu
 85 90 95
 Gly Arg Gly Ala Asp Gly Trp Arg Ile Pro Ile Arg Thr Ala Ser His
 100 105 110
 Arg Gly Leu Ala Gly Cys Ala Pro Glu Arg
 115 120

<210> 3137

<211> 499

<212> PRT

<213> Homo sapiens

<400> 3137

Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Thr Val Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Thr Ala Thr Gly Phe Asp Met

35	40	45
Pro Ser Phe Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
50	55	60
Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Tyr Tyr His Ala		
65	70	75
Asp Ala Val Arg Gly Arg Phe Val Val Ser Arg Asp Asn Gly Arg His		
85	90	95
Ser Leu Tyr Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Thr Ala Leu		
100	105	110
Tyr Tyr Cys Ala Lys Asp Pro Leu Arg Pro Asn Thr Tyr Tyr Tyr Asp		
115	120	125
Ser Gly Asp Gly Ala Gly Ile Trp Gly Gln Gly Thr Met Val Thr Val		
130	135	140
Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys		
145	150	155
Ser Thr Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly		
165	170	175
Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln		
180	185	190
Gly Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp		
195	200	205
Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu		
210	215	220
Ala Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser		
225	230	235
Gln Asp Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro		
245	250	255
Ser Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg		
260	265	270

Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu
275 280 285
Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val
290 295 300
Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro
305 310 315 320
Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro
325 330 335
Gly Cys Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala
340 345 350
Ala Tyr Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser
355 360 365
Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu
370 375 380
Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly
385 390 395 400
Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu
405 410 415
Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser
420 425 430
Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala
435 440 445
Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu
450 455 460
Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly
465 470 475 480
Lys Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly
485 490 495
Thr Cys Tyr

<210> 3138

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3138

Met	Asn	Leu	Gly	Gly	Gly	Ala	Cys	Ser	Gln	Pro	Arg	Ser	Gly	Cys	Cys
1				5						10				15	
Thr	Pro	Ala	Trp	Gly	Thr	Glu	Arg	Asp	Ser	Ala	Ser	Lys	Lys	Lys	Lys
				20				25						30	
Lys	Lys	Lys	Glu	Arg	Asn	Phe	Pro	Glu	Tyr	Ser	Ser	Pro	Pro	Glu	Pro
				35				40						45	
Ser	Pro	Phe	Leu	Arg	Phe	Val	Pro	Ile	Ser	Trp	Thr	Pro	Tyr	Glu	Arg
				50				55						60	
Leu	Gln	Arg	Leu	Lys	Trp	Glu	Asp	Cys	Leu	Ser	Leu	Gly	Gly	Arg	Gly
				65				70						75	
Cys	Ser	Glu	Leu	Trp	Ser	Tyr	His	Cys	Thr	Leu	Ala	Trp	Ala	Thr	Glu
				85				90						95	
Arg	Asp	Leu	Val	Ser	Lys	Thr	Ala	Thr	Thr	Lys	Asn	Tyr	Leu	Gly	Ile
				100				105						110	

<210> 3139

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3139

Met Gly Leu Gln Pro Leu Glu Phe Ser Asp Cys Tyr Leu Asp Ser Pro
 1 5 10 15
 Trp Phe Arg Glu Arg Ile Arg Ala His Glu Ala Glu Leu Glu Arg Thr
 20 25 30
 Asn Lys Phe Ile Lys Glu Leu Ile Lys Asp Gly Lys Asn Leu Ile Ala
 35 40 45
 Ala Thr Lys Ser Leu Ser Val Ala Gln Arg Lys Phe Ala His Ser Leu
 50 55 60
 Arg Asp Phe Lys Phe Glu Phe Ile Gly Asp Ala Val Thr Asp Asp Glu
 65 70 75 80
 Arg Cys Ile Asp Ala Ser Leu Arg Glu Phe Ser Asn Phe Leu Lys Asn
 85 90 95
 Leu Glu Glu Gln Arg Glu Ile Met Ala Leu Ser Val Thr Glu Thr Leu
 100 105 110
 Ile Lys Pro Leu Glu Lys Phe Arg Lys Glu Gln Leu Gly Ala Val Lys
 115 120 125
 Glu Glu Lys Lys Lys Phe Asp Lys Glu Thr Glu Lys Asn Tyr Ser Leu
 130 135 140
 Ile Asp Lys His Leu Asn Leu Ser Ala Lys Lys Lys Asp Ser His Leu
 145 150 155 160
 Gln Glu Val

<210> 3140

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3140

```

Met Glu Pro Pro Asn Cys Pro Ile Ile Tyr Val Ser Val Lys Leu Glu
  1             5             10             15
Phe Ile Arg Leu Val Thr Asn Cys Arg Val Ala Leu Gly His Ser Gly
      20             25             30
Phe Cys Ser Leu Lys Ile Tyr Leu Val Ala Ser Gln Ser Thr Leu Val
      35             40             45
Thr Gln His Gln Ser Ala Pro Asp Gly Arg Ser Ser Asp Val Lys Ile
      50             55             60
Gln Val Thr Ala Gln Val Asp Val Leu Leu Leu Val Pro Gly Val Asp
      65             70             75             80
Phe Ser Ile Phe Pro Pro Val Leu Gly Asp Lys Gly Glu Leu Arg Val
      85             90             95
Ser Phe Ser Pro Leu Ala Arg
      100

```

<210> 3141

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3141

```

Met Ser Leu Gln Phe Ser Gln Gly Leu Arg Ser Trp His Gly Glu Phe
  1             5             10             15
Val Pro Gly Cys Cys Val Pro Arg Gly Val Leu Gly Glu Gly Phe Arg
      20             25             30

```

Gly Ala Arg Gln Gly Val Leu Gly Ser Arg Val Pro Pro Gly Ser Val
 35 40 45
 Trp Glu Pro Cys Ile Thr Arg Gly Arg Arg Val Ser Leu Pro Gly Ser
 50 55 60
 Leu Leu Leu Cys Ile Arg Thr Thr Pro Gly Arg Leu Trp Gly Pro Thr
 65 70 75 80
 Leu His Pro Gln Gly Ser Met Arg Gln Gly Pro Arg Asn Ser Leu Arg
 85 90 95
 Pro Pro Pro Ser Lys Pro Ala Leu Ser Pro Ile Pro Ala His Pro Glu
 100 105 110
 Pro Ser Pro Ala Asn Leu Leu Leu Arg Ser Trp Gln Glu Ala Thr Val
 115 120 125
 Leu Leu Pro Phe Pro Phe Arg Leu Leu Arg Val Thr Asp Pro Asn Arg
 130 135 140
 Glu Ile Ser Ile Cys Leu Pro Ser Gly Cys Pro Ala Arg Arg Ala Leu
 145 150 155 160
 His Gly Val Pro Pro Leu Cys Glu Met Gly Gln Asp Pro Ser Ala Arg
 165 170 175
 Gly Ala Trp Gly Trp Gly
 180

<210> 3142

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3142

Met Ala Ala Gly Asn His Ser Gly Gly Thr Cys Trp Pro Ala Leu His

1 5 10 15
 Pro Val Pro Leu Trp Ala Pro Leu Pro Ser Asp Ser Gly His Pro Trp
 20 25 30
 Ala Pro Ser Leu Tyr Arg Pro Gly Gln Glu Glu Thr Thr Gly Asn His
 35 40 45
 Pro Lys Asp Asn Met Leu Val Gln Cys His Ser Ser Leu Ala Leu Trp
 50 55 60
 Val Pro Leu Trp Pro Val Pro Thr Gly Trp Leu Ile Leu Trp Phe Leu
 65 70 75 80
 Tyr His His Met Pro Ile Leu Arg His Ser Pro Ala Leu Ser Val Arg
 85 90 95
 Glu Cys Lys Phe Cys Asn Ile Phe
 100

<210> 3143

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3143

Met Thr Ala Arg His Pro Ala His Lys Gln Arg Gln Ser Arg Gly Phe
 1 5 10 15
 Ser Pro Leu Trp Arg Pro Arg Gln Ser Glu Arg Lys Gly Arg Gly Cys
 20 25 30
 Glu His Leu Arg Ile Tyr Ala Ala Gln Gly Ala Pro Glu Ser Cys Arg
 35 40 45
 Glu Pro Gly Trp Ala Ser Ala Gly Asn Lys Gly Ser Pro Phe Cys Gly
 50 55 60

Thr Gln Ala Leu Ala Asn Leu Lys His Asp Ser Pro Lys Ser Ala Gly
 65 70 75 80
 Ala Val Pro Glu Pro Ser Ala Ala Gln Cys Pro Arg Arg Thr Ser Asp
 85 90 95
 His Arg Asp Trp Asp Asn Val Lys Ala Gln Pro Ile Gln Ala His Arg
 100 105 110
 Pro Ala His Val Val Leu Gly Pro Ser Ala Cys Ala Leu Gly Lys Trp
 115 120 125
 Leu Pro Trp Asp Cys Ala Arg Ala Ala Ser
 130 135

<210> 3144

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3144

Met Ala Ala Gly Asn His Ser Gly Gly Thr Cys Trp Pro Ala Leu His
 1 5 10 15
 Pro Val Pro Leu Trp Ala Pro Leu Pro Ser Asp Ser Gly His Pro Trp
 20 25 30
 Ala Pro Ser Leu Tyr Arg Pro Gly Gln Glu Glu Thr Thr Gly Asn His
 35 40 45
 Pro Lys Asp Asn Met Leu Val Gln Cys His Ser Ser Leu Ala Leu Trp
 50 55 60
 Val Pro Leu Trp Pro Val Pro Thr Gly Trp Leu Ile Leu Trp Phe Leu
 65 70 75 80
 Tyr His His Met Pro Ile Leu Arg His Ser Pro Ala Leu Ser Val Arg

85 90 95
Glu Cys Lys Phe Cys Asn Ile Phe
100

<210> 3145

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3145

Met Gln Leu Arg Gln Gly Leu Lys Tyr Thr Leu Val Ser Cys Ser Thr
1 5 10 15
Leu Arg Leu Thr Arg Val Gly Lys Asn Leu Ala Leu Ala Asn Leu Trp
20 25 30
Ser Asp Trp Phe Ser Ala Leu Glu Pro Cys Val Leu Leu Phe Lys Met
35 40 45
Phe Ile Lys Thr Ile Arg Ala Leu Leu Asn Ile Asp Pro Tyr Gln Glu
50 55 60
Phe Tyr Phe Cys Pro Cys Pro Val Ser Ser Glu Ala Cys Asp Leu Cys
65 70 75 80
Ser Ala Phe Cys Pro Leu Lys His Val Ile Phe Val Pro Thr Pro Arg
85 90 95
Ser Tyr Thr Pro Ser Pro Phe Ala Ile Leu Asn Lys Asn Leu Leu Val
100 105 110
Leu Arg Leu Gly Pro Ala Ser Arg Ser Tyr
115 120

<210> 3146

<211> 223

<212> PRT

<213> Homo sapiens

<400> 3146

Met Val Gln Arg Glu Ser Leu Ser Ser Glu Gly Ala Leu Gly Gly Lys

1 5 10 15

Glu Leu Gln Pro Arg Gly Trp Gly Thr His His Ser Arg Ile Pro Lys

20 25 30

Ser Cys Thr Pro Ala Gly Arg Ile Leu Val Pro Ser His Tyr His His

35 40 45

Ser Pro Pro Val Pro Gln Glu Pro Pro Cys Arg Glu Gln Gln Glu Ser

50 55 60

Gly Ser Phe Arg Ala Cys Arg Gly Leu Gly Ser Leu Ala Ser Lys Pro

65 70 75 80

Leu Gly Pro Gly Val Ser Leu Thr Arg Asn Gly Thr Gly Val Glu Pro

85 90 95

Trp Gly Cys Gly Gln Ala Gly Leu Phe Pro Gly Pro Gly Asn Gly Ser

100 105 110

Gln Gly Trp Ser Leu Ala Gln Val Ser Cys Pro Trp Leu Arg Ser Leu

115 120 125

Ser Leu Pro Gly Leu Arg Ala His Leu Lys Ala Glu Ala Glu Leu Pro

130 135 140

Pro Lys Leu Pro Leu Gln Glu Glu Glu Pro Glu Asp Ser Gln Ser Glu

145 150 155 160

Pro Ser Pro Ser Ala Lys Gln His Lys Lys Ala Lys Lys Arg Lys Ser

165 170 175

Leu Gly Ala Pro Val Leu His Ala Val Ala Ser Met Val Ser Ala Pro

180	185	190
Leu Glu Thr Leu Arg Leu Glu Arg Glu Trp Gln Ser Leu Asp Cys Ser		
195	200	205
Phe Ser Pro Cys Leu Trp Gly Pro Thr Trp His Asn Leu Ala Leu		
210	215	220

<210> 3147

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3147

Met Ala Arg Val Gln Ala Pro Arg Leu Ala Ser Ala Cys Leu Ala His		
1	5	10
Ser Cys Pro Leu Ser Gly Gly Gly Cys Ser Glu Glu Ser Gly Cys Arg		
20	25	30
Leu Thr Ser Pro Glu Lys Pro Glu Pro Lys Met Glu Ile Lys Phe Glu		
35	40	45
Met Leu Asp Ala Ser Gly Asp Glu Ser Gly Gln Lys Ser Ser Lys Arg		
50	55	60
Ala Arg Leu Gln Gly Ala Asn Gly Ala Pro Pro Gly Gly Ser Ala Pro		
65	70	75
Ser Pro Pro Ala Ser Ser Ser Ser Ser Ser Ser Ser Trp Pro Gly		
85	90	95
Ser Arg Leu Arg Cys Leu Ser Leu Gln Glu Val Gly Leu Val Pro Phe		
100	105	110
Gly Tyr Leu His Ser Pro Ser Pro His Ser Pro Ser Trp His Phe Pro		
115	120	125

Cys Cys Ser Phe Met Glu Cys Ala Ser Gly Ser Pro Thr Arg Leu Glu
 130 135 140
 Pro Leu Glu Cys Ile Thr Arg Asp Leu Thr Ile Cys Val Ser Leu Arg
 145 150 155 160
 Pro Ala Gln Pro Pro His Thr Gly Thr Cys Arg Glu Trp Met
 165 170

<210> 3148

<211> 435

<212> PRT

<213> Homo sapiens

<400> 3148

Met Lys Trp Gly Trp Val Phe Leu Gly Ala Leu Leu Ser Leu Gly Asn
 1 5 10 15
 Met Ser Trp Gly Glu Lys Gly Leu Glu Ile Pro Glu Tyr Asp Gly Lys
 20 25 30
 Asp Arg Val His Asp Leu Asn Ala Lys Asn Tyr Lys Ser Val Met Lys
 35 40 45
 Lys Tyr Asp Val Met Val Ile Tyr Tyr His Ala His Val Glu Ser Asn
 50 55 60
 Lys Asn Ala Gln Lys Ala Phe Glu Met Glu Glu Leu Ala Leu Glu Leu
 65 70 75 80
 Ala Ala Gln Val Leu Asp Asp Leu Asp Asp Glu Asp Ile Gly Phe Gly
 85 90 95
 Leu Val Asp Glu Lys Lys Asp Leu Ser Val Ala Lys Lys Leu Gly Leu
 100 105 110
 Asp Glu Val Glu Ser Ile Tyr Ile Phe Val Asp Asn Glu Ile Ile Glu

115 120 125
Tyr Asp Gly Glu Leu Ala Ala Asp Thr Leu Val Glu Phe Leu Tyr Asp
130 135 140
Val Ile Glu Asp Pro Val Glu Ile Ile Asp Asn Glu Arg Glu Leu Lys
145 150 155 160
Gly Phe His Asn Ile Asp Glu Asp Ile Lys Leu Val Gly Tyr Phe Lys
165 170 175
Ser Glu Lys Ser Pro His Phe Ile Glu Tyr Asp Asp Ala Ala Glu Glu
180 185 190
Phe His Pro Phe Ile Lys Phe Phe Ala Thr Phe Asp Ala Lys Ile Ala
195 200 205
Lys Lys Leu Lys Met Lys Leu Asn Glu Val Asp Phe Tyr Glu Pro Phe
210 215 220
Met Glu Glu Pro Val Thr Ile Pro Gly Gln Pro Tyr Ser Glu Ala Glu
225 230 235 240
Leu Val Asp Tyr Ile Glu Glu His Asp Arg Pro Thr Leu Arg Lys Leu
245 250 255
Glu Pro His Ser Met Tyr Glu Thr Trp Glu Asp Asp Ile Asp Gly Glu
260 265 270
His Ile Val Ala Phe Ala Glu Glu Asp Asp Pro Asp Gly Tyr Glu Phe
275 280 285
Leu Glu Ile Leu Lys Glu Val Ala Arg Glu Asn Thr Asp Asn Ala Asp
290 295 300
Leu Ser Ile Ile Trp Ile Asp Pro Asp Asp Phe Pro Leu Leu Val Pro
305 310 315 320
Tyr Trp Glu Lys Thr Phe Gly Ile Asp Leu Gly Ser Pro Gln Ile Gly
325 330 335
Val Val Asp Val Glu Asp Ala Asp Ser Val Trp Met Glu Met Asp Asp
340 345 350

Asp Glu Asp Met Pro Thr Ala Asp Glu Leu Glu Asp Trp Ile Glu Asp
 355 360 365
 Val Leu Ser Gly Lys Ile Asp Pro Asp Asp Asp Asp Asp Asp Asp Asp
 370 375 380
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 385 390 395 400
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 405 410 415
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 420 425 430
 Asp Asp Glu
 435

<210> 3149

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3149

Met Gly Asn Tyr Leu Leu Arg Lys Leu Ser Cys Leu Gly Glu Asn Gln
 1 5 10 15
 Lys Lys Pro Lys Lys Gly Asn Pro Asp Glu Glu Arg Lys Arg Gln Glu
 20 25 30
 Met Thr Thr Phe Glu Arg Lys Leu Gln Asp Arg Asp Lys Lys Ser Gln
 35 40 45
 Glu Val Ser Ser Thr Ser Asn Gln Glu Asn Glu Asn Gly Ser Gly Ser
 50 55 60
 Glu Glu Val Cys Tyr Thr Val Ile Asn His Ile Pro His Gln Arg Ser

65 70 75 80
Ser Leu Ser Ser Asn Asp Asp Gly Tyr Glu Asn Ile Asp Ser Leu Thr
 85 90 95
Arg Lys Val Arg Gln Phe Arg Glu Arg Ser Glu Thr Glu Tyr Ala Leu
 100 105 110
Leu Arg Thr Ser Val Ser Arg Pro Cys Ser Cys Thr His Glu His Asp
 115 120 125
Tyr Glu Val Val Phe Pro His
 130 135

<210> 3150

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3150

Met Ala Ser Val Lys Asn Arg Arg Val Val Ala Asp Asn Gly Cys Leu
1 5 10 15
Pro Gln Thr His Pro Gln Gln Leu Cys Arg His Ser Ser Thr Trp Pro
 20 25 30
Leu Ala Leu Gly Met Gln Leu Leu Ser Ser Glu Ser Ile Arg Phe Ile
 35 40 45
Phe Phe Phe Leu Arg Gln Ser Leu Val Leu Ser Pro Arg Leu Glu Cys
 50 55 60
Ser Gly Val Met Leu Ala His Cys Asn Leu Cys Leu Pro Gly Ser Ser
65 70 75 80
Asp Ser Pro Thr Ser Ala Ser Arg Val Ala Trp Thr Thr Gly Thr Arg
 85 90 95

His Tyr Ala Gln Leu Ile Val Ser Leu Val Glu Thr Val Phe Arg His

100

105

110

Phe Gly Gln Thr Gly Leu Glu Leu Leu Thr

115

120

<210> 3151

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3151

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Ala Gly

1

5

10

15

Val Gln Ser Leu Leu Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys

20

25

30

Pro Gly Ser Ser Val Thr Val Ser Cys Glu Ala Ser Gly Asp Ser Ser

35

40

45

Pro Thr Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu

50

55

60

Glu Trp Met Gly Asp Ile Thr Pro Val Phe Gly Thr Lys Glu Met Ser

65

70

75

80

Gln Lys Phe Gln Asp Arg Val Ser Ile Thr Ala Asp Ser Val Ser Val

85

90

95

Thr Ala Asp Thr Arg Arg Thr Val Tyr Leu Glu Val Arg Arg Leu Thr

100

105

110

Ser Asp Asp Ser Ala Val Tyr Tyr Cys Ala Lys Ser Glu Thr Asp His

115

120

125

Ser Phe Tyr Tyr Tyr Ile Glu Leu Trp Gly Gln Gly Thr Thr Val Thr

130	135	140	
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro			
145	150	155	160
Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val			
165	170	175	
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala			
180	185	190	
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly			
195	200	205	
Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly			
210	215	220	
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys			
225	230	235	240
Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys			
245	250	255	
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu			
260	265	270	
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu			
275	280	285	
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys			
290	295	300	
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys			
305	310	315	320
Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu			
325	330	335	
Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys			
340	345	350	
Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys			
355	360	365	

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 370 375 380
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 385 390 395 400
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 405 410 415
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 420 425 430
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 435 440 445
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 450 455 460
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470 475

<210> 3152

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3152

Met Cys Ala Gly Val His Val Phe Thr Phe Pro Pro Ala Glu Thr Ser
 1 5 10 15
 Asp Ala Val Lys Pro Ser His Ile Lys Gln Tyr Thr Leu Thr Gly His
 20 25 30
 Ile Ala Leu Trp Asp Ser Lys Val Phe Cys Lys Phe Trp Ser Leu Glu
 35 40 45
 Gly Phe Leu Glu Ser Gly Phe Cys Leu Val Cys Glu His Phe Cys Gln

50 55 60
 Phe Leu Lys His Gly Leu Pro Cys Leu Leu Pro Arg Cys Arg Ala Val
 65 70 75 80
 Ser Phe Asn His Gly His Pro Leu Ser His His Leu Lys Gly His Thr
 85 90 95
 Phe His Val Glu Cys Gly Arg Leu Glu Ser Leu Lys Asn Thr Leu Phe
 100 105 110
 Phe Pro Ile Thr Leu Cys Ser Phe Leu Gly Asn Met Cys Ser Ile Phe
 115 120 125
 Val Ser His Ser Glu Phe Phe Trp Ala Val Cys Arg Trp Ala Trp Thr
 130 135 140
 Asn Phe Arg Ala
 145

<210> 3153

<211> 336

<212> PRT

<213> Homo sapiens

<400> 3153

Met Tyr Thr Val Leu Thr Gly Thr Pro Pro Phe Met Ala Ser Pro Leu
 1 5 10 15
 Ser Glu Met Tyr Gln Asn Ile Arg Glu Gly His Tyr Pro Glu Pro Ala
 20 25 30
 His Leu Ser Ala Asn Ala Arg Arg Leu Ile Val His Leu Leu Ala Pro
 35 40 45
 Asn Pro Ala Glu Arg Pro Ser Leu Asp His Leu Leu Gln Asp Asp Phe
 50 55 60

Phe Thr Gln Gly Phe Thr Pro Asp Arg Leu Pro Ala His Ser Cys His
65 70 75 80
Ser Pro Pro Ile Phe Ala Ile Pro Pro Pro Leu Gly Arg Ile Phe Arg
85 90 95
Lys Val Gly Gln Arg Leu Leu Thr Gln Cys Arg Pro Pro Cys Pro Phe
100 105 110
Thr Pro Lys Glu Ala Ser Gly Pro Gly Glu Gly Gly Pro Asp Pro Asp
115 120 125
Ser Met Glu Trp Asp Gly Glu Ser Ser Leu Ser Ala Lys Glu Val Pro
130 135 140
Cys Leu Glu Gly Pro Ile His Leu Val Ala Gln Gly Ile Leu Gln Ser
145 150 155 160
Asp Leu Ala Gly Pro Glu Gly Ser Arg Arg Pro Glu Val Glu Ala Ala
165 170 175
Leu Arg His Leu Gln Leu Cys Leu Asp Val Gly Pro Pro Ala Thr Gln
180 185 190
Asp Pro Leu Gly Glu Gln Gln Pro Ile Leu Trp Ala Pro Lys Trp Val
195 200 205
Asp Tyr Ser Ser Lys Tyr Gly Phe Gly Tyr Gln Leu Leu Asp Gly Gly
210 215 220
Arg Thr Gly Arg His Pro His Gly Pro Val Thr Pro Arg Arg Glu Gly
225 230 235 240
Thr Leu Pro Thr Pro Val Pro Pro Ala Gly Pro Gly Leu Cys Leu Leu
245 250 255
Arg Phe Leu Ala Ser Glu His Ala Leu Leu Leu Leu Phe Ser Asn Gly
260 265 270
Met Val Gln Val Ser Phe Ser Gly Val Pro Ala Gln Leu Val Leu Ser
275 280 285
Gly Glu Gly Glu Gly Leu Gln Leu Thr Leu Trp Glu Gln Gly Ser Pro

290 295 300
 Gly Thr Ser Tyr Ser Leu Asp Val Pro Gln Ser His Gly Cys Ala Pro
 305 310 315 320
 Thr Thr Gly Gln His Leu His His Ala Leu Arg Met Leu Gln Ser Ile
 325 330 335

<210> 3154

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3154

Met Cys Pro Ser Trp Thr Gly Gly Arg Ala Gly His Arg Asp Pro Gly
 1 5 10 15
 Ser Phe Arg Ser Arg Asp Trp Arg Val Gly Arg His Pro Trp Glu His
 20 25 30
 Pro Cys Pro Pro Ser Ala Ala Gln Gly Arg Gly Gly Glu Pro Gly Phe
 35 40 45
 Gly Pro His Leu Ile Lys Ser Pro Pro Gln Thr Pro Gln Ala Asn Thr
 50 55 60
 Gly Arg Trp Ala Val Thr Pro Arg Ser Pro Ala Ala Ala Thr Leu Leu
 65 70 75 80
 Trp Thr Ser Ser Ser Ser Ser Ala Thr Ile Thr Arg Trp Pro Ser Arg
 85 90 95
 Trp Ala Gly Ala Thr
 100

<210> 3155

<211> 505

<212> PRT

<213> Homo sapiens

<400> 3155

Met Pro Gln Gln Leu Leu Ile Thr Leu Pro Thr Glu Ala Ser Thr Trp

1 5 10 15

Val Lys Leu Gln His Pro Lys Lys Ala Val Glu Gly Ala Pro Leu Trp

20 25 30

Glu Asp Val Thr Lys Met Phe Glu Gly Glu Ala Leu Leu Ser Gln Asp

35 40 45

Ala Glu Asp Val Lys Thr Gln Arg Glu Ser Leu Glu Asp Glu Val Thr

50 55 60

Pro Gly Leu Pro Thr Ala Glu Ser Gln Glu Leu Leu Thr Phe Lys Asp

65 70 75 80

Ile Ser Ile Asp Phe Thr Gln Glu Glu Trp Gly Gln Leu Ala Pro Ala

85 90 95

His Gln Asn Leu Tyr Arg Glu Val Met Leu Glu Asn Tyr Ser Asn Leu

100 105 110

Val Ser Val Gly Tyr Gln Leu Ser Lys Pro Ser Val Ile Ser Gln Leu

115 120 125

Glu Lys Gly Glu Glu Pro Trp Met Ala Glu Lys Glu Gly Pro Gly Asp

130 135 140

Pro Ser Ser Asp Leu Lys Ser Lys Ile Glu Thr Ile Glu Ser Thr Ala

145 150 155 160

Lys Ser Thr Ile Ser Gln Glu Arg Leu Tyr His Gly Ile Met Met Glu

165 170 175

Ser Phe Met Arg Asp Asp Ile Ile Tyr Ser Thr Leu Arg Lys Val Ser

180	185	190
Thr Tyr Asp Asp Val Leu Glu Arg His Gln Glu Thr Cys Met Arg Asp		
195	200	205
Val Arg Gln Ala Ile Leu Thr His Lys Lys Arg Val Gln Glu Thr Asn		
210	215	220
Lys Phe Gly Glu Asn Ile Ile Val His Ser Asn Val Ile Ile Glu Gln		
225	230	235
Arg His His Lys Tyr Asp Thr Pro Thr Lys Arg Asn Thr Tyr Lys Leu		
245	250	255
Asp Leu Ile Asn His Pro Thr Ser Tyr Ile Arg Thr Lys Thr Tyr Glu		
260	265	270
Cys Asn Ile Cys Glu Lys Ile Phe Lys Gln Pro Ile His Leu Thr Glu		
275	280	285
His Met Arg Ile His Thr Gly Glu Lys Pro Phe Arg Cys Lys Glu Cys		
290	295	300
Gly Arg Ala Phe Ser Gln Ser Ala Ser Leu Ser Thr His Gln Arg Ile		
305	310	315
His Thr Gly Glu Lys Pro Phe Glu Cys Glu Glu Cys Gly Lys Ala Phe		
325	330	335
Arg His Arg Ser Ser Leu Asn Gln His His Arg Thr His Thr Gly Glu		
340	345	350
Lys Pro Tyr Val Cys Asp Lys Cys Gln Lys Ala Phe Ser Gln Asn Ile		
355	360	365
Ser Leu Val Gln His Leu Arg Thr His Ser Gly Glu Lys Pro Phe Thr		
370	375	380
Cys Asn Glu Cys Gly Lys Thr Phe Arg Gln Ile Arg His Leu Ser Glu		
385	390	395
His Ile Arg Ile His Thr Gly Glu Lys Pro Tyr Ala Cys Thr Ala Cys		
405	410	415

Cys Lys Thr Phe Ser His Arg Ala Tyr Leu Thr His His Gln Arg Ile
 420 425 430
 His Thr Gly Glu Arg Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe
 435 440 445
 Arg Gln Arg Ile His Leu Ser Asn His Lys Thr Val His Thr Gly Val
 450 455 460
 Lys Ala Tyr Glu Cys Asn Arg Cys Gly Lys Ala Tyr Arg His Asp Ser
 465 470 475 480
 Ser Phe Lys Lys His Gln Arg His His Thr Gly Glu Lys Pro Tyr Glu
 485 490 495
 Cys Asn Glu Cys Gly Lys Ala Phe Ser
 500 505

<210> 3156

<211> 328

<212> PRT

<213> Homo sapiens

<400> 3156

Met Ala Gly Val Glu Glu Val Ala Ala Ser Gly Ser His Leu Asn Gly
 1 5 10 15
 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Ala Ala Ser Thr Ala Glu
 20 25 30
 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Lys Ser Lys Gly Pro
 35 40 45
 Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val
 50 55 60
 Asp Glu Val Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Gln Glu Val Met Glu Ser Tyr Glu Val Glu Ile Asp Gly Lys Thr Tyr
 305 310 315 320

Gln Arg Arg Arg Ser Ile Cys Asn
 325

<210> 3157

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3157

Met Val His Val Glu Cys Ile Lys Pro Thr Gly Pro Glu Ser Leu Leu
 1 5 10 15
 Thr Gly Asp Phe Leu Glu Met Glu Ser Arg Ser Val Ala Gln Ala Gly
 20 25 30
 Glu Cys Asn Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu Gly
 35 40 45
 Ser Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly
 50 55 60
 Gly Cys His His Thr Gln Leu Ser Ile Val Phe Leu Ala Glu Met Gly
 65 70 75 80
 Phe His His Phe Ala Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Tyr
 85 90 95
 Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ala Arg Gly
 100 105 110
 Phe Leu Met Trp Leu Leu Leu Leu Arg Arg Pro Cys Pro
 115 120 125

<210> 3158

<211> 178

<212> PRT

<213> Homo sapiens

<400> 3158

Met Pro Leu Ile Leu Ser Ile Leu Ser Gly Asn Val Pro Arg Leu Leu

1 5 10 15

Leu Pro Gly Ser Trp Leu His Asn Leu Ile Phe Pro Lys Arg Val Ala

20 25 30

Ile Pro Ala Ala Pro Gly Thr Ser Glu Pro Leu Pro Leu His Phe Trp

35 40 45

Cys Ala Ser Glu Ser Arg Ser Ala Cys Trp Arg Arg Leu Trp Pro Arg

50 55 60

Pro Pro Gly Arg Phe Leu Arg Met Gly Ser Thr Arg Gly Ala Glu Pro

65 70 75 80

Gly Thr Lys Trp Thr Ala His Val Cys Cys His Glu Ala Trp Gln Gln

85 90 95

His His Thr Pro Leu Cys Gly Val Leu Leu Ala Gly Gly Gln Arg Arg

100 105 110

Ala Leu Ser Ser Pro Ala Thr Ala Ala Ala His Ser Arg Leu Leu Pro

115 120 125

Gly His Ile Ala His Trp Pro Gly His Ala Pro Val Leu Trp Gln Pro

130 135 140

Leu Val Pro Asp Asn Phe His Pro Asp Ser Gly Pro Cys Arg Leu Gly

145 150 155 160

Ala Asn Thr Arg Ser Pro Ser Gln Ala Phe Leu Pro Leu Pro Ser Ala

165 170 175

Ala Leu

<210> 3159

<211> 252

<212> PRT

<213> Homo sapiens

<400> 3159

Met Ile Lys Glu Ala Gly Ala Ile Ile Ser Thr Arg His Cys Asn Pro

1 5 10 15

Gln Asn Gly Asp Arg Cys Val Ala Ala Leu Ala Arg Val Glu Cys Thr

20 25 30

His Phe Leu Trp Pro Met Cys Ile Gly Glu Val Ala His Val Ser Ala

35 40 45

Glu Ile Thr Tyr Thr Ser Lys His Ser Val Glu Val Gln Val Asn Met

50 55 60

Met Ser Glu Asn Ile Leu Thr Gly Ala Lys Lys Leu Thr Asn Lys Ala

65 70 75 80

Thr Leu Trp Tyr Ala Pro Leu Ser Leu Thr Asn Val Asp Lys Val Leu

85 90 95

Glu Glu Pro Pro Val Val Tyr Phe Arg Gln Glu Gln Glu Glu Glu Gly

100 105 110

Gln Lys Arg Tyr Lys Thr Gln Lys Leu Glu Arg Met Glu Thr Asn Trp

115 120 125

Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro Glu Pro Asn Thr

130 135 140

Val Ser Tyr Ser Gln Ser Ser Leu Ile His Leu Val Gly Pro Ser Asp

145 150 155 160
 Cys Thr Leu His Ser Phe Val His Glu Gly Val Thr Met Lys Val Met
 165 170 175
 Asp Glu Val Ala Gly Ile Leu Ala Ala Arg His Cys Lys Thr Asn Leu
 180 185 190
 Val Thr Ala Ser Met Glu Ala Ile Asn Phe Asp Asn Lys Ile Arg Lys
 195 200 205
 Gly Cys Ile Lys Thr Ile Ser Gly Arg Met Thr Phe Thr Ser Asn Lys
 210 215 220
 Ser Val Glu Ile Glu Val Leu Val Asp Ala Asp Cys Val Val Asp Ser
 225 230 235 240
 Ser Gln Lys Arg Tyr Arg Ala Ala Ser Val Phe Thr
 245 250

<210> 3160

<211> 458

<212> PRT

<213> Homo sapiens

<400> 3160

Met Glu Leu Pro Leu Gly Arg Cys Asp Asp Ser Arg Thr Trp Asp Asp
 1 5 10 15
 Asp Ser Asp Pro Glu Ser Glu Thr Asp Pro Asp Ala Gln Ala Lys Ala
 20 25 30
 Tyr Val Ala Arg Val Leu Ser Pro Pro Lys Ser Gly Leu Ala Phe Ser
 35 40 45
 Arg Pro Ser Gln Leu Ser Thr Pro Ala Ala Ser Pro Ser Ala Ser Glu
 50 55 60

Pro Arg Ala Ala Ser Arg Val Ser Ala Val Ser Glu Pro Gly Leu Leu
65 70 75 80
Ser Leu Pro Pro Glu Leu Leu Leu Glu Ile Cys Ser Tyr Leu Asp Ala
85 90 95
Arg Leu Val Leu His Val Leu Ser Arg Val Cys His Ala Leu Arg Asp
100 105 110
Leu Val Ser Asp His Val Thr Trp Arg Leu Arg Ala Leu Arg Arg Val
115 120 125
Arg Ala Pro Tyr Pro Val Val Glu Glu Lys Asn Phe Asp Trp Pro Ala
130 135 140
Ala Cys Ile Ala Leu Glu Gln His Leu Ser Arg Trp Ala Glu Asp Gly
145 150 155 160
Arg Trp Val Glu Tyr Phe Cys Leu Ala Glu Gly His Val Ala Ser Val
165 170 175
Asp Ser Val Leu Leu Leu Gln Gly Gly Ser Leu Cys Leu Ser Gly Ser
180 185 190
Arg Asp Arg Asn Val Asn Leu Trp Asp Leu Arg Gln Leu Gly Thr Glu
195 200 205
Ser Asn Gln Val Leu Ile Lys Thr Leu Gly Thr Lys Arg Asn Ser Thr
210 215 220
His Glu Gly Trp Val Trp Ser Leu Ala Ala Gln Asp His Arg Val Cys
225 230 235 240
Ser Gly Ser Trp Asp Ser Thr Val Lys Leu Trp Asp Met Ala Ala Asp
245 250 255
Gly Gln Gln Phe Gly Glu Ile Lys Ala Ser Ser Ala Val Leu Cys Leu
260 265 270
Ser Tyr Leu Pro Asp Ile Leu Val Thr Gly Thr Tyr Asp Lys Lys Val
275 280 285
Thr Ile Tyr Asp Pro Arg Ala Gly Pro Ala Leu Leu Lys His Gln Gln

290 295 300
Leu His Ser Arg Pro Val Leu Thr Leu Leu Ala Asp Asp Arg His Ile
305 310 315 320
Ile Ser Gly Ser Glu Asp His Thr Leu Val Val Val Asp Arg Arg Ala
325 330 335
Asn Ser Val Leu Gln Arg Leu Gln Leu Asp Ser Tyr Leu Leu Cys Met
340 345 350
Ser Tyr Gln Glu Pro Gln Leu Trp Ala Gly Asp Asn Gln Gly Leu Leu
355 360 365
His Val Phe Ala Asn Arg Asn Gly Cys Phe Gln Leu Ile Arg Ser Phe
370 375 380
Asp Val Gly His Ser Phe Pro Ile Thr Gly Ile Gln Tyr Ser Val Gly
385 390 395 400
Ala Leu Tyr Thr Thr Ser Thr Asp Lys Thr Ile Arg Val His Val Pro
405 410 415
Thr Asp Pro Pro Arg Thr Ile Cys Thr Arg Arg His Asp Asn Gly Leu
420 425 430
Asn Arg Val Cys Ala Glu Gly Asn Leu Val Val Ala Gly Ser Gly Asp
435 440 445
Leu Ser Leu Glu Val Trp Arg Leu Gln Ala
450 455

<210> 3161

<211> 631

<212> PRT

<213> Homo sapiens

<400> 3161

Met Phe Ser Pro Asp Gln Ser Ser Met Pro Met Ser Asn Val Gly Thr
 1 5 10 15
 Thr Arg Leu Ser His Met Pro Leu Pro Pro Ala Ser Asn Pro Pro Gly
 20 25 30
 Thr Val His Ser Ala Pro Asn Arg Gly Leu Gly Arg Arg Pro Ser Asp
 35 40 45
 Leu Thr Ile Ser Ile Asn Gln Met Gly Ser Pro Gly Met Gly His Leu
 50 55 60
 Lys Ser Pro Thr Leu Ser Gln Val His Ser Pro Leu Val Thr Ser Pro
 65 70 75 80
 Ser Ala Asn Leu Lys Ser Pro Gln Thr Pro Ser Gln Met Val Pro Leu
 85 90 95
 Pro Ser Ala Asn Pro Pro Gly Pro Leu Lys Ser Pro Gln Val Leu Gly
 100 105 110
 Ser Ser Leu Ser Val Arg Ser Pro Thr Gly Ser Pro Ser Arg Leu Lys
 115 120 125
 Ser Pro Ser Met Ala Val Pro Ser Pro Gly Trp Val Ala Ser Pro Lys
 130 135 140
 Thr Ala Met Pro Ser Pro Gly Val Ser Gln Asn Lys Gln Pro Pro Leu
 145 150 155 160
 Asn Met Asn Ser Ser Thr Thr Leu Ser Asn Met Glu Gln Gly Thr Leu
 165 170 175
 Pro Pro Ser Gly Pro Arg Ser Ser Ser Ser Ala Pro Pro Ala Asn Pro
 180 185 190
 Pro Ser Gly Leu Met Asn Pro Ser Leu Pro Phe Thr Ser Ser Pro Asp
 195 200 205
 Pro Thr Pro Ser Gln Asn Pro Leu Ser Leu Met Met Thr Gln Met Ser
 210 215 220
 Lys Tyr Ala Met Pro Ser Ser Thr Pro Leu Tyr His Asn Ala Ile Lys

225 230 235 240
Thr Ile Ala Thr Ser Asp Asp Glu Leu Leu Pro Asp Arg Pro Leu Leu
 245 250 255
Pro Pro Pro Pro Pro Pro Gln Gly Ser Gly Pro Gly Ile Ser Asn Ser
 260 265 270
Gln Pro Ser Gln Met His Leu Asn Ser Ala Ala Ala Gln Ser Pro Met
 275 280 285
Gly Met Asn Leu Pro Gly Gln Gln Pro Leu Ser His Glu Pro Pro Pro
 290 295 300
Ala Met Leu Pro Ser Pro Thr Pro Leu Gly Ser Asn Ile Pro Leu His
305 310 315 320
Pro Asn Ala Gln Gly Thr Gly Gly Pro Pro Gln Asn Ser Met Met Met
 325 330 335
Ala Pro Gly Gly Pro Asp Ser Leu Asn Ala Pro Cys Gly Pro Val Pro
 340 345 350
Ser Ser Ser Gln Met Met Pro Phe Pro Pro Arg Leu Gln Gln Pro His
 355 360 365
Gly Ala Met Ala Pro Thr Gly Gly Gly Gly Gly Gly Pro Gly Leu Gln
 370 375 380
Gln His Tyr Pro Ser Gly Met Ala Leu Pro Pro Glu Asp Leu Pro Asn
385 390 395 400
Gln Pro Pro Gly Pro Met Pro Pro Gln Gln His Leu Met Gly Lys Ala
 405 410 415
Met Ala Gly Arg Met Gly Asp Ala Tyr Pro Pro Gly Val Leu Pro Gly
 420 425 430
Val Ala Ser Val Leu Asn Asp Pro Glu Leu Ser Glu Val Ile Arg Pro
 435 440 445
Thr Pro Thr Gly Ile Pro Glu Phe Asp Leu Ser Arg Ile Ile Pro Ser
 450 455 460

Glu Lys Pro Ser Ser Thr Leu Gln Tyr Phe Pro Lys Ser Glu Asn Gln
465 470 475 480
Pro Pro Lys Ala Gln Pro Pro Asn Leu His Leu Met Asn Leu Gln Asn
485 490 495
Met Met Ala Glu Gln Thr Pro Ser Arg Pro Pro Asn Leu Pro Gly Gln
500 505 510
Gln Gly Val Gln Arg Gly Leu Asn Met Ser Met Cys His Pro Gly Gln
515 520 525
Met Ser Leu Leu Gly Arg Thr Gly Val Pro Pro Gln Gln Gly Met Val
530 535 540
Pro His Gly Leu His Gln Gly Val Met Ser Pro Pro Gln Gly Leu Met
545 550 555 560
Thr Gln Gln Asn Phe Met Leu Met Lys Gln Arg Gly Val Gly Gly Glu
565 570 575
Val Tyr Ser Gln Pro Pro His Met Leu Ser Pro Gln Gly Ser Leu Met
580 585 590
Gly Pro Pro Pro Gln Gln Asn Leu Met Val Ser His Pro Leu Arg Gln
595 600 605
Arg Ser Val Ser Leu Asp Ser Gln Met Gly Tyr Leu Pro Ala Pro Gly
610 615 620
Gly Met Ala Asn Leu Pro Phe
625 630

<210> 3162

<211> 542

<212> PRT

<213> Homo sapiens

<400> 3162

Met	Pro	Arg	Arg	Gly	Leu	Ile	Leu	His	Thr	Arg	Thr	His	Trp	Leu	Leu
1				5					10					15	
Leu	Gly	Leu	Ala	Leu	Leu	Cys	Ser	Leu	Val	Leu	Phe	Met	Tyr	Leu	Leu
			20					25					30		
Glu	Cys	Ala	Pro	Gln	Thr	Asp	Gly	Asn	Ala	Ser	Leu	Pro	Gly	Val	Val
		35					40					45			
Gly	Glu	Asn	Tyr	Gly	Lys	Glu	Tyr	Tyr	Gln	Ala	Leu	Leu	Gln	Glu	Gln
	50					55					60				
Glu	Glu	His	Tyr	Gln	Thr	Arg	Ala	Thr	Ser	Leu	Lys	Arg	Gln	Ile	Ala
65					70					75				80	
Gln	Leu	Lys	Gln	Glu	Leu	Gln	Glu	Met	Ser	Glu	Lys	Met	Arg	Ser	Leu
			85					90					95		
Gln	Glu	Arg	Arg	Asn	Val	Gly	Ala	Asn	Gly	Ile	Gly	Tyr	Gln	Ser	Asn
		100						105					110		
Lys	Glu	Gln	Ala	Pro	Ser	Asp	Leu	Leu	Glu	Phe	Leu	His	Ser	Gln	Ile
	115						120					125			
Asp	Lys	Ala	Glu	Val	Ser	Ile	Gly	Ala	Lys	Leu	Pro	Ser	Glu	Tyr	Gly
	130						135				140				
Val	Ile	Pro	Phe	Glu	Ser	Phe	Thr	Leu	Met	Lys	Val	Phe	Gln	Leu	Glu
145					150					155				160	
Met	Gly	Leu	Thr	Arg	His	Pro	Glu	Glu	Lys	Pro	Val	Arg	Lys	Asp	Lys
			165						170				175		
Arg	Asp	Glu	Leu	Val	Glu	Val	Ile	Glu	Ala	Gly	Leu	Glu	Val	Ile	Asn
		180						185					190		
Asn	Pro	Asp	Glu	Asp	Asp	Glu	Gln	Glu	Asp	Glu	Glu	Gly	Pro	Leu	Gly
		195					200					205			
Glu	Lys	Leu	Ile	Phe	Asn	Glu	Asn	Asp	Phe	Val	Glu	Gly	Tyr	Tyr	Arg
	210						215					220			

Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe Phe Lys Lys Ala
225 230 235 240
Asp Leu Thr Glu Tyr Arg His Val Thr Leu Phe Arg Pro Phe Gly Pro
245 250 255
Leu Met Lys Val Lys Ser Glu Met Ile Asp Ile Thr Arg Ser Ile Ile
260 265 270
Asn Ile Ile Val Pro Leu Ala Glu Arg Thr Glu Ala Phe Val Gln Phe
275 280 285
Met Gln Asn Phe Arg Asp Val Cys Ile His Gln Asp Lys Lys Ile His
290 295 300
Leu Thr Val Val Tyr Phe Gly Lys Glu Gly Leu Ser Lys Val Lys Ser
305 310 315 320
Ile Leu Glu Ser Val Thr Ser Glu Ser Asn Phe His Asn Tyr Thr Leu
325 330 335
Val Ser Leu Asn Glu Glu Phe Asn Arg Gly Arg Gly Leu Asn Val Gly
340 345 350
Ala Arg Ala Trp Asp Lys Gly Glu Val Leu Met Phe Phe Cys Asp Val
355 360 365
Asp Ile Tyr Phe Ser Ala Glu Phe Leu Asn Ser Cys Arg Leu Asn Ala
370 375 380
Glu Pro Gly Lys Lys Val Phe Tyr Pro Val Val Phe Ser Leu Tyr Asn
385 390 395 400
Pro Ala Ile Val Tyr Ala Asn Gln Glu Val Pro Pro Pro Val Glu Gln
405 410 415
Gln Leu Val His Lys Lys Asp Ser Gly Phe Trp Arg Asp Phe Gly Phe
420 425 430
Gly Met Thr Cys Gln Tyr Arg Ser Asp Phe Leu Thr Ile Gly Gly Phe
435 440 445
Asp Met Glu Val Lys Gly Trp Gly Gly Glu Asp Val His Leu Tyr Arg

450 455 460
 Lys Tyr Leu His Gly Asp Leu Ile Val Ile Arg Thr Pro Val Pro Gly
 465 470 475 480
 Leu Phe His Leu Trp His Glu Lys Arg Cys Ala Asp Glu Leu Thr Pro
 485 490 495
 Glu Gln Tyr Arg Met Cys Ile Gln Ser Lys Ala Met Asn Glu Ala Ser
 500 505 510
 His Ser His Leu Gly Met Leu Val Phe Arg Glu Glu Ile Glu Thr His
 515 520 525
 Leu His Lys Gln Ala Tyr Arg Thr Asn Ser Glu Ala Val Gly
 530 535 540

<210> 3163

<211> 222

<212> PRT

<213> Homo sapiens

<400> 3163

Met Tyr Gln Asp Phe Ile Phe Phe Phe Phe Phe Leu Arg Trp Ser Phe
 1 5 10 15
 Ile Leu Leu Ala Gln Ala Gly Val Gln Trp Cys Ser Leu Ser Ser Leu
 20 25 30
 Gln Pro Leu Pro Ser Arg Phe Lys Arg Phe Ser Cys Leu Gly Phe Pro
 35 40 45
 Ser Ser Gln Asp Tyr Arg Arg Leu Ala Pro Cys Pro Ala Thr Phe Phe
 50 55 60
 Val Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu
 65 70 75 80

Lys Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Arg Ala
 85 90 95
 Gly Ile Thr Gly Val Ser His His Gly Gln Pro Ser Phe Ile Phe Met
 100 105 110
 Glu Lys Asn Ile Ser Leu Tyr Glu Tyr Thr Thr Phe Cys Leu Ser Ile
 115 120 125
 Tyr Pro Leu Ile Gly Cys Phe Tyr Phe Phe Leu Ala Ile Met Asn Asn
 130 135 140
 Ile Ala Val Asn Ile Cys Val Gln Gly Phe Ser Gly His Lys Phe Leu
 145 150 155 160
 Phe Phe Leu Gly Ile Tyr Leu Gly Val Glu Leu Leu Gly His Ile Val
 165 170 175
 Ile Leu Phe Asn Phe Leu Lys Asn Phe Pro Thr Val Leu His Gly Gly
 180 185 190
 Cys Ala Ile Val Tyr Ser Tyr Gln Gln Cys Met Lys Leu Gln Ile Ser
 195 200 205
 Pro His Pro Glu Asn Pro Phe Ile Ile Phe Cys Phe Ser Phe
 210 215 220

<210> 3164

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3164

Met Tyr Asp Ala Glu Arg Gly Trp Ser Leu Ser Phe Ala Gly Cys Gly
 1 5 10 15
 Phe Leu Gly Phe Tyr His Val Gly Ala Thr Arg Cys Leu Ser Glu His

20	25	30
Ala Pro His Leu Leu Arg Asp Ala Arg Met Leu Phe Gly Ala Ser Ala		
35	40	45
Gly Ala Leu His Cys Val Gly Val Leu Ser Glu Gln Thr Leu Gln Val		
50	55	60
Leu Ser Asp Leu Val Arg Lys Ala Arg Ser Arg Asn Ile Gly Ile Phe		
65	70	75
His Pro Ser Phe Asn Leu Ser Lys Phe Leu Arg Gln Gly Leu Cys Lys		
85	90	95
Cys Leu Pro Ala Asn Val His Gln Leu Ile Ser Gly Lys Ile Cys Ile		
100	105	110
Ser Leu Thr Arg Val Ser Asp Gly Glu Asn Val Leu Val Ser Asp Phe		
115	120	125
Arg Ser Lys Asp Glu Val Val Asp Ala Leu Val Cys Ser Cys Phe Met		
130	135	140
Pro Phe Tyr Ser Gly Leu Ile Pro Pro Ser Phe Arg Gly Val Arg Tyr		
145	150	155
Val Asp Gly Gly Val Ser Asp Asn Val Pro Phe Ile Asp Ala Lys Thr		
165	170	175
Thr Ile Thr Val Ser Pro Phe Tyr Gly Glu Tyr Asp Ile Cys Pro Lys		
180	185	190
Val Lys Ser Thr Asn Phe Leu His Val Asp Ile Thr Lys Leu Ser Leu		
195	200	205
Arg Leu Cys Thr Gly Asn Leu Tyr Leu Leu Ser Arg Ala Phe Val Pro		
210	215	220
Pro Asp Leu Lys Val Leu Gly Glu Ile Cys Leu Arg Gly Tyr Leu Asp		
225	230	235
Ala Phe Arg Phe Leu Glu Glu Lys Gly Ile Cys Asn Arg Pro Gln Pro		
245	250	255

Gly Leu Lys Ser Ser Ser Glu Gly Met Asp Pro Glu Val Ala Met Pro
260 265 270

Ser Trp Ala Asn Met Ser Leu Asp Ser Ser Pro Glu Ser Ala Ala Leu
275 280 285

Ala Val Arg Leu Glu Gly Asp Glu Leu Leu Asp His Leu Arg Leu Ser
290 295 300

Ile Leu Pro Trp Asp Glu Ser Ile Leu Asp Thr Leu Ser Pro Arg Leu
305 310 315 320

Ala Thr Ala Leu Ser Glu Glu Met Lys Asp Lys Gly Gly Tyr Met Ser
325 330 335

Lys Ile Cys Asn Leu Leu Pro Ile Arg Ile Met Ser Tyr Val Met Leu
340 345 350

Pro Cys Thr Leu Pro Val Glu Ser Ala Ile Ala Ile Val Gln Arg Leu
355 360 365

Val Thr Trp Leu Pro Asp Met Pro Asp Asp Val Leu Trp Leu Gln Trp
370 375 380

Val Thr Ser Gln Val Phe Thr Arg Val Leu Met Cys Leu Leu Pro Ala
385 390 395 400

Ser Arg Ser Gln Met Pro Val Ser Ser Gln Gln Ala Ser Pro Cys Thr
405 410 415

Pro Glu Gln Asp Trp Pro Cys Trp Thr Pro Cys Ser Pro Glu Gly Cys
420 425 430

Pro Ala Glu Thr Lys Ala Glu Ala Thr Pro Arg Ser Ile Leu Arg Ser
435 440 445

Ser Leu Asn Phe Phe Leu Gly Asn Lys Val Pro Ala Gly Ala Glu Gly
450 455 460

Leu Ser Thr Phe Pro Ser Phe Ser Leu Glu Lys Ser Leu
465 470 475

<210> 3165

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3165

Met Arg Arg Cys Arg Arg Cys Ala Arg Trp Pro His Arg Cys Pro Gly

1 5 10 15

Pro Gln Ser Gly Pro Arg Ser His Phe Ser Pro Trp Pro Arg Thr Leu

20 25 30

Gly Pro Ala Pro Ala Leu Cys Val Arg Thr Pro Leu Arg Pro Gly Pro

35 40 45

Ser Ser Ala Leu Gly Pro Leu Ser Ala Cys Pro Ser Val Pro Asp Tyr

50 55 60

Thr Ala Ser Pro Pro Ala Gly Asp Ser Ala Arg Ser Ile Val Ala Ala

65 70 75 80

Ser Arg Ala Ala Gly Ser Gly Ser Thr Pro Gly Ala Gly Ser Lys Asp

85 90 95

Cys Ser Pro Pro Pro His Ser His Ser Ala Ala Ala Ala Gly Glu Ser

100 105 110

Gly Asp Ile Gly Pro Gly Ser Gly Ala Val Glu Ala Pro Gly Arg Gly

115 120 125

Ala Arg Arg Pro Thr Arg Gln Arg Glu Asp Gly Gly Gly Ala Val Gly

130 135 140

Cys Phe Gly Val Ser Arg His Arg Gly Arg Glu Ala Gln Met Ser His

145 150 155 160

Ser Ser His Cys Gly Ser Arg Ser Cys Ser Ala Ala Ala Ala Arg Pro

165 170 175

Ser Leu Leu Gln Leu Ala

180

<210> 3166

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3166

Met Asn Val Val Ala Gln Arg Arg Gly Glu Gly Trp Gly Glu Met Arg

1 5 10 15

Asn Arg Lys Lys Ile Pro Arg Glu Ile Lys Arg Pro Arg Gly Ala Glu

20 25 30

Pro Gly Ser Arg Trp Ser Arg Gln Met Glu Gln Gln Arg Gln Arg Thr

35 40 45

Glu Pro Gln Ser Gly His Thr Ala Arg Pro Gly Ser Gln Ala Leu Trp

50 55 60

Val Trp Trp Glu Gln Met Leu Val Trp Glu Gln Gln Leu Met Ala Pro

65 70 75 80

Ser Thr Cys Ile Leu Val Asp Ser Arg Pro Ser Thr Ala Ser Ser Ala

85 90 95

Ala Gly Leu Ser Leu Glu Glu Gln Pro Trp Ser Arg Glu Ala Asp Glu

100 105 110

Trp Gln Pro Cys Pro Val Gly Ala Pro Val Leu Leu Leu His Pro Pro

115 120 125

Pro Gly Ser Ala His Leu Leu Arg Leu Pro Pro Arg Ala Ser

130 135 140

<210> 3167

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3167

Met Ile Ala Gln Arg Arg Asp Ala Met Ala His Arg Ile Leu Ser Ala

1 5 10 15

Arg Leu His Lys Ile Lys Gly Leu Lys Asn Glu Leu Ala Asp Met His

20 25 30

His Lys Leu Glu Ala Ile Leu Thr Glu Asn Gln Phe Leu Lys Gln Leu

35 40 45

Gln Leu Arg His Leu Lys Ala Ile Gly Lys Tyr Glu Asn Ser Gln Asn

50 55 60

Asn Leu Pro Gln Ile Met Ala Lys His Gln Asn Glu Val Lys Asn Leu

65 70 75 80

Arg Gln Leu Leu Arg Lys Ser Gln Glu Lys Glu Arg Thr Leu Ser Arg

85 90 95

Lys Leu Arg Glu Thr Asp Ser Gln Leu Leu Lys Thr Lys Asp Ile Leu

100 105 110

Gln Ala Leu Gln Lys Leu Ser Glu Asp Lys Asn Leu Ala Glu Arg Glu

115 120 125

Glu Leu Thr His Lys Leu Ser Ile Ile Thr Thr Lys Met Asp Ala Asn

130 135 140

Asp Lys Lys Ile Gln Val Cys Ile Ser Gly Ala Gln Thr Val

145 150 155

<210> 3168

<211> 196

<212> PRT

<213> Homo sapiens

<400> 3168

Met Gly Asn Lys Ala Lys Ile Ala Lys Cys Pro Leu Arg Thr Lys Thr

1 5 10 15

Gly His Ile Leu Lys Ser Thr Gln Asp Thr Cys Ile Gly Ser Glu Lys

20 25 30

Leu Leu Gln Lys Lys Pro Val Gly Ser Glu Thr Ser Gln Ala Lys Gly

35 40 45

Glu Lys Asn Gly Met Thr Phe Ser Ser Thr Lys Asp Leu Cys Lys Gln

50 55 60

Cys Ile Asp Lys Asp Cys Leu His Ile Gln Lys Glu Ile Ser Pro Ala

65 70 75 80

Thr Pro Asn Met Gln Lys Thr Arg Asn Thr Val Asn Thr Ser Leu Val

85 90 95

Gly Lys Gln Lys Pro His Lys Lys His Ile Thr Ala Glu Asn Met Lys

100 105 110

Ser Ser Leu Val Cys Leu Thr Gln Asp Gln Leu Gln Gln Ile Leu Met

115 120 125

Thr Val Asn Gln Gly Asn Arg Ser Leu Ser Leu Thr Glu Asn Gly Lys

130 135 140

Glu Ala Lys Ser Gln Tyr Ser Leu Tyr Leu Asn Ser Ile Ser Asn Gln

145 150 155 160

Pro Lys Asp Glu Asn Ile Met Gly Leu Phe Lys Lys Thr Glu Met Val

165 170 175

Ser Ser Val Pro Ala Glu Asn Lys Ser Val Leu Asn Glu His Gln Glu

180 185 190
Thr Ser Lys Gln
195

<210> 3169

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3169

Met Ser Thr Arg Val Asn Cys Pro Leu Asn Cys Pro Asn Met Ala Ser
1 5 10 15
Tyr Ser Leu Met Glu Asn Pro Arg Gly Arg Val Tyr Pro His Phe Ser
20 25 30
Leu Asn Lys Lys Val Phe Ile Pro Lys Thr Gly Gly Gly Arg Gly Gly
35 40 45
Ser Met Thr Lys Ser Pro Ser Val Ala Gln Ala Gly Val Gln Gly Val
50 55 60
Ile Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser Gly Asp Ser Pro
65 70 75 80
Ala Ser Ala Ser Arg Glu Ala Gly Ile Ala Gly Ala His His Gln Pro
85 90 95
Gly Gln His Gly Lys Thr Pro Ser Leu Leu Lys Met Gln Thr Leu Ala
100 105 110
Gly His Gly Gly Thr Cys Leu
115

<210> 3170

<211> 675

<212> PRT

<213> Homo sapiens

<400> 3170

```

Met Leu Leu Ala Pro Gln Gly Arg Ser Phe Ser Lys Lys Arg Met Gly
  1             5             10             15
Leu Asn Arg Trp Lys Arg Phe Thr Arg Lys Pro Ser Pro Lys Pro Thr
          20             25             30
Phe Gly Pro Asp Ser Val Glu His Trp Ile Lys Arg Val Glu Lys Ala
          35             40             45
Ser Glu Phe Ala Val Ser Asn Ala Phe Phe Thr Arg Asn Ser Asp Leu
          50             55             60
Pro Arg Ser Pro Trp Gly Gln Ile Thr Asp Leu Lys Thr Ser Glu Gln
          65             70             75             80
Ile Glu Asp His Asp Glu Ile Tyr Ala Glu Ala Gln Glu Leu Val Asn
          85             90             95
Asp Trp Leu Asp Thr Lys Leu Lys Gln Glu Leu Ala Ser Glu Glu Glu
          100            105            110
Gly Asp Ala Lys Asn Thr Val Ser Ser Val Thr Ile Met Pro Glu Ala
          115            120            125
Asn Gly His Leu Lys Tyr Asp Lys Phe Asp Asp Leu Cys Gly Tyr Leu
          130            135            140
Glu Glu Glu Glu Glu Ser Thr Thr Val Gln Lys Phe Ile Asp His Leu
          145            150            155            160
Leu His Lys Asn Val Val Asp Ser Ala Met Met Glu Asp Leu Gly Arg
          165            170            175
Lys Glu Asn Gln Asp Lys Lys Gln Gln Lys Asp Pro Arg Leu Thr Met

```

180 185 190
Glu Met Arg His Lys Gln Val Lys Glu Asn Arg Leu Arg Arg Glu Lys
195 200 205
Glu Leu Glu Tyr Gln Arg Ile Glu Lys Thr Leu Lys Lys Ser Ala Phe
210 215 220
Leu Glu Ala Gln Cys Leu Val Gln Glu Glu Lys Lys Arg Lys Ala Leu
225 230 235 240
Glu Ala Lys Lys Glu Glu Glu Glu Ile Gln Arg Glu Met Val Lys Leu
245 250 255
Arg Arg Glu Ile Ile Glu Arg Arg Arg Thr Val Lys Ala Ala Trp Lys
260 265 270
Ile Glu Lys Lys Arg Gln Glu Glu Asn Ser Gln Asn Ser Ser Glu Lys
275 280 285
Val Met Phe Gln Ser Thr His Ile Leu Pro Asp Glu Glu Lys Met Val
290 295 300
Lys Glu Arg Lys Arg Lys Leu Lys Glu Val Leu Ile Gln Thr Phe Lys
305 310 315 320
Glu Asn Gln Gln Cys Gln Lys Arg Tyr Phe Ala Ala Trp His Lys Leu
325 330 335
Ile Leu Asp His Arg Ile Lys Leu Gly Lys Ala Gly Thr Leu Ser Asp
340 345 350
Trp Lys Ile Gln Leu Lys Val Leu Arg Ala Trp Arg Asp Tyr Thr Arg
355 360 365
Phe Gln Lys Leu Glu Arg Glu Thr Gln Ala Leu Glu Asn Asp Leu Arg
370 375 380
Glu Glu Asn Arg Lys Gln Gln Leu Ala Thr Glu Tyr Asn Arg Lys Gln
385 390 395 400
Val Leu Arg His Cys Phe Thr Glu Trp Gln His Trp His Gly Ala Glu
405 410 415

Leu Leu Lys Arg Glu Leu Ala Leu Thr Lys Glu Glu Thr Arg Lys Lys
 420 425 430
 Met Asp Ala Leu Leu Gln Ala Ala Ser Leu Gly Lys Leu Ser Ala Asn
 435 440 445
 Gly Leu Ser Gly Ile Ser Leu Pro Glu Glu Ala Thr Ala Met Val Gly
 450 455 460
 Pro Pro Val Lys Asn Gly Gln Glu Thr Ala Val Pro Pro Leu Trp Glu
 465 470 475 480
 Lys Pro Pro Leu Gly Ser Ser Gly Cys Met Leu Ser Pro Pro Leu Gly
 485 490 495
 Arg Thr Thr Thr Gly Asn Leu Gln Gly Ser Leu Gln Asn Val Ser Leu
 500 505 510
 Ser Ala Pro Gly Asn Lys Gln His Lys Thr Leu Gly Ala Glu Pro Ser
 515 520 525
 Gln Gln Pro Gly Ser Asn Glu Thr Leu Arg Thr Thr Ser Gln Lys Ala
 530 535 540
 Glu Pro Leu Cys Leu Gly His Phe His Asn Arg His Val Phe Gln Gln
 545 550 555 560
 Gln Leu Ile Glu Lys Gln Lys Lys Lys Leu Gln Glu Gln Gln Lys Thr
 565 570 575
 Ile Leu Glu Leu Lys Lys Asn Leu Gln Leu Ala Glu Ala Gln Trp Ala
 580 585 590
 Ala Glu His Ala Leu Ala Val Thr Glu Ala Gln Ser His Leu Leu Ser
 595 600 605
 Lys Pro Arg Glu Glu Glu Pro Arg Thr Cys Gln Met Leu Val Asn Ser
 610 615 620
 Pro Val Ala Ser Pro Gly Thr Glu Gly Arg Ser Asp Ser Arg Asn Ser
 625 630 635 640
 Leu Ser Gly Leu Arg Arg Lys Pro Lys Gln Leu Met Thr Pro His Pro

	645		650		655										
Ile	Leu	Lys	Ala	Met	Glu	Glu	Arg	Ala	Ile	Gln	Arg	Ala	Glu	Cys	Arg
	660		665		670										
Arg	Ile	Leu													
	675														

<210> 3171

<211> 188

<212> PRT

<213> Homo sapiens

<400> 3171

Met	Gly	Phe	His	His	Val	Gly	Gln	Ala	Gly	Leu	Gly	Leu	Leu	Thr	Ser
1				5					10					15	
Cys	Ser	Thr	Arg	Phe	Gly	Leu	Pro	Arg	Phe	Trp	Asp	Tyr	Arg	Cys	Glu
			20					25					30		
Pro	Pro	Cys	Thr	Ala	Gly	Leu	Thr	Phe	Gly	Lys	Ala	Leu	Ser	Leu	Trp
		35					40					45			
Thr	Phe	Ala	Ser	Leu	Lys	Arg	Arg	Trp	Glu	His	Ile	Met	Thr	Ala	Cys
	50					55					60				
His	His	Cys	Phe	Ser	Asp	Tyr	His	Asn	Ser	Ile	Met	Leu	Ser	Arg	Thr
65					70					75				80	
Ser	Gly	Pro	Val	Phe	Thr	Thr	Gly	Lys	Thr	Tyr	Phe	Arg	Leu	Asp	Ser
			85					90				95			
Leu	Lys	Arg	Ser	Asn	Ala	Leu	Val	Gly	Cys	Gly	Glu	Gly	Lys	Ile	Arg
		100						105				110			
Thr	Leu	Thr	Leu	Lys	Asp	Thr	Ser	Glu	Ile	Val	Arg	Ser	Leu	Gly	Ser
		115						120				125			

Trp Ser Thr Arg Leu His Ala Leu Arg Pro Ser Val Val Phe Ser Glu
 130 135 140
 Gln Ala Leu Ser Thr Ser Ser Arg Lys Gln Gln Gln Lys Asn Thr Ser
 145 150 155 160
 Phe Leu Pro Cys Leu Leu Asp Met Lys Arg Gln Leu His Ser Thr Leu
 165 170 175
 His Tyr Val Leu His Val Ala Leu Ser Val Tyr Ala
 180 185

<210> 3172

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3172

Met Glu Lys Phe Ser Lys Ser Leu Pro Gly Pro Glu Ala Gln Leu Ala
 1 5 10 15
 Ser Pro Leu Thr Gly Thr Gly Cys Arg Thr Ser Pro His Leu Ala Arg
 20 25 30
 Ala Leu Pro Gln Pro Arg Gly Ser Ser Ser Gln Thr Ile Lys Arg Lys
 35 40 45
 Arg Gly Glu Ala Arg Lys Arg Arg Arg Ala Ala Ser Val Ala Lys Asp
 50 55 60
 Pro Thr Lys Arg Glu Gly Arg Ser Thr His Gly Thr Gln Pro Pro Ile
 65 70 75 80
 Lys Pro Ser Arg Cys Arg Asp Arg Ala His Pro Asp Pro Thr Pro Ala
 85 90 95
 Gly Gln Arg Cys Ala Gln Pro Gln Leu Leu Pro Ala Pro Leu Ser Ser

100	105	110
His Phe Pro Glu Ser Arg Gly Ser Arg Leu Arg Pro Gln Pro Ala Pro		
115	120	125
Glu Lys Gly Pro His Ser Ala Ala Gly Gly		
130	135	

<210> 3173

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3173

Met Ala Ala Ala Gly Pro Leu Cys Thr Glu Arg Val Ser Val Leu Ser		
1	5	10
Gln Pro Asn Ser Gly Val Glu Asp Pro Thr Pro Ala Gly Gly Arg Gly		
20	25	30
Gln Gly Arg Arg Arg Gly Arg Glu Glu Leu Glu Ser Ile Gly Ala Gly		
35	40	45
Pro Gly Ala Ser Val Arg Ile Leu Pro Ala Leu Arg Pro Gly Leu Gly		
50	55	60
Gly Val Trp Gly Ala Gly Ala Ala Ser Leu Val Phe Gln Ala Gly Pro		
65	70	75
Gly Ser Ser Trp Leu Gly Trp Pro Asp Leu Asp Leu Ala Leu Tyr Arg		
85	90	95
Gly Trp Ala Cys Arg Ser Glu Gly Thr Ala Asn Val Ala Phe Pro Gly		
100	105	110
Thr Ala Ser Pro Gly Phe Ser Arg Ala Arg Gln Thr Arg Asp Leu Arg		
115	120	125

Lys Pro Ala Leu Lys Thr Pro Ser His Thr Ala Ser Gln Leu Ala Ala
 130 135 140
 Glu Ala Gly Asn Pro Ser Gly Gly Cys Pro Ser Met Arg Cys Gln Arg
 145 150 155 160
 Arg Val Gly Ala Leu Val Pro Thr Trp Lys Gly Gly Trp Arg Asp Gly
 165 170 175
 Trp Ser Gly Ser Gly Gly Arg Ala Lys Glu Arg Ile Leu Ala Phe Ser
 180 185 190
 Phe Pro Ala Gly Gly Gly Ile Arg Gly Glu Arg Val Gln Ala Ala Ser
 195 200 205
 Asn Thr Arg Ile Trp Glu Glu Pro Gly Ser Thr Pro Asn
 210 215 220

<210> 3174

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3174

Met Tyr Ala Cys Val Cys Asp Trp Leu Gly Phe Ser Tyr Arg Glu Glu
 1 5 10 15
 Val Gln Trp Asp Val Asp Thr Ile Tyr Leu Thr Gln Asp Thr Arg Glu
 20 25 30
 Leu Asn Leu Gln Asp Phe Ser His Leu Asp His Arg Asp Leu Ile Pro
 35 40 45
 Ile Ile Ala Ala Leu Glu Tyr Asn Gln Trp Phe Thr Lys Leu Ser Ser
 50 55 60
 Lys Asp Leu Lys Leu Ser Thr Asp Val Cys Glu Gln Ile Leu Arg Val

65	70	75	80
Val Ser Arg Ser Asn Arg Leu Glu Glu Leu Val Leu Glu Asp Ala Gly			
	85	90	95
Leu Arg Thr Asp Phe Ala Gln Lys Leu Ala Ser Ala Leu Ala His Asn			
	100	105	110
Pro Asn Ser Gly Leu His Thr Ile Asn Leu Ala Gly Asn Pro Leu Glu			
	115	120	125
Asp Arg Glu Thr Thr Thr Lys Ile Lys Arg Gln Asn Val Pro Thr Val			
	130	135	140
Leu Gln Thr Tyr Leu Val Val Cys Pro Ser Asp Tyr Gln Pro Cys Pro			
145	150	155	160
Leu Pro Leu Gly Lys Asp Asn Tyr Tyr Ser Asp Phe Ser His Asp Gly			
	165	170	175

<210> 3175

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3175

Met Arg Val Ser Ser Gly Val Ala Thr Gly Leu Leu Glu Asn Gln Arg			
1	5	10	15
Arg Arg Glu Gln Pro Arg Ser Gly Gly Arg Arg Pro Gly Pro Gly Pro			
	20	25	30
Leu Leu Pro Gln Gln Ala Pro His Pro Arg Ile Ile Cys Ser Arg Ala			
	35	40	45
Ala Pro Thr Ser Leu Ser Leu Pro His Pro Arg Ser Arg Phe Arg Arg			
	50	55	60

Ser Gly His Ala Gly Ala Ser Ala Gly Cys Gly Arg Pro Ser Arg Gly
65 70 75 80
Leu Gly Glu Gly Ser Gly Leu Lys Phe Thr Leu Ser Leu Arg Gly Leu
85 90 95
Glu Ala Pro Arg Pro Pro Arg Thr Val Ser Ser Ala Ala Gly Cys Ala
100 105 110
Leu Gly Gly Ser Ser Pro Ser Val Leu Pro Thr Gly Val Gly Arg Gly
115 120 125

<210> 3176

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3176

Met Ile Thr Leu Ala Ser Pro Leu Cys Pro Ile Ile Ser Gln Val Pro
1 5 10 15
Ile Leu Lys Arg Lys Arg Lys Glu Gly Gly Asn Glu Gly Arg Glu Gly
20 25 30
Gly Arg Lys Glu Gly Arg Met Glu Gly Arg Lys Glu Gly Lys Gly Glu
35 40 45
Arg Glu Gly Arg Arg Glu Gly Arg Lys Leu Ser Asn Pro Ser Ser Val
50 55 60
Gln Ser Arg Arg Arg Phe His Gly Thr Pro Arg Ile Asp Arg Phe Leu
65 70 75 80
Leu Leu Ser Trp Trp Met Glu Met Pro Thr Ser Ser Cys Glu Ser Leu
85 90 95
Pro Glu Gly Leu Ile Val Ala Pro Ser Ser Val Gly Leu Thr Ser Leu

100	105	110
Phe Ser Leu Glu Gly Leu Ala Ile Glu Arg Gln Val Met Cys Cys Phe		
115	120	125
Arg Lys Gln Asn Trp Asp Met Ser		
130	135	

<210> 3177

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3177

Met Ala Leu Asp Phe Leu Ala Gly Cys Ala Gly Gly Val Ala Gly Val		
1	5	10
15		
Leu Val Gly His Pro Phe Asp Thr Val Lys Val Arg Leu Gln Val Gln		
20	25	30
Ser Val Glu Lys Pro Gln Tyr Arg Gly Thr Leu His Cys Phe Lys Ser		
35	40	45
Ile Ile Lys Gln Glu Ser Val Leu Gly Leu Tyr Lys Gly Leu Gly Ser		
50	55	60
Pro Leu Met Gly Leu Thr Phe Ile Asn Ala Leu Val Phe Gly Val Gln		
65	70	75
80		
Gly Asn Thr Leu Arg Ala Leu Gly His Asp Ser Pro Leu Asn Gln Phe		
85	90	95
Leu Ala Gly Ala Ala Ala Gly Ala Ile Gln Cys Val Ile Cys Cys Pro		
100	105	110
Met Glu Leu Ala Lys Thr Arg Leu Gln Leu Gln Asp Ala Gly Pro Ala		
115	120	125

Arg Thr Tyr Lys Gly Ser Leu Asp Cys Leu Ala Gln Ile Tyr Gly His
130 135 140

Glu Gly Leu Arg Gly Val Asn Arg Gly Met Val Ser Thr Leu Leu Arg
145 150 155 160

Glu Thr Pro Ser Phe Gly Val Tyr Phe Leu Thr Tyr Asp Ala Leu Thr
165 170 175

Arg Ala Leu Gly Cys Glu Pro Gly Asp Arg Leu Leu Val Pro Lys Leu
180 185 190

Leu Leu Ala Gly Gly Thr Ser Gly Ile Val Ser Trp Leu Ser Thr Tyr
195 200 205

Pro Val Asp Val Val Lys Ser Arg Leu Gln Ala Asp Gly Leu Arg Gly
210 215 220

Ala Pro Arg Tyr Arg Gly Ile Leu Asp Cys Val His Gln Ser Tyr Arg
225 230 235 240

Ala Glu Gly Trp Arg Val Phe Thr Arg Gly Leu Ala Ser Thr Leu Leu
245 250 255

Arg Ala Phe Pro Val Asn Ala Ala Thr Phe Ala Thr Val Thr Val Val
260 265 270

Leu Thr Tyr Ala Arg Gly Glu Glu Ala Gly Pro Glu Gly Glu Ala Val
275 280 285

Pro Ala Ala Pro Ala Gly Pro Ala Leu Ala Gln Pro Ser Ser Leu
290 295 300

<210> 3178

<211> 694

<212> PRT

<213> Homo sapiens

<400> 3178

Met Ala Leu Gly Lys Leu Arg Pro Pro Thr Pro Pro Met Val Ile Leu
 1 5 10 15
 Glu Pro Tyr Val Leu Ser Glu Leu Pro Pro Ile Ser His Glu Tyr Tyr
 20 25 30
 Asp Pro Ala Glu Phe Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu
 35 40 45
 Asp Glu Leu Glu Tyr Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg
 50 55 60
 Asp Lys Leu Gly Leu Met Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp
 65 70 75 80
 Leu Gly Ile Tyr Val Gly Glu Val Asn Pro Asn Ser Ile Ala Ala Lys
 85 90 95
 Asp Gly Arg Ile Arg Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Val
 100 105 110
 Asp Val Gln Asn Arg Glu Glu Ala Val Ala Ile Leu Ser Gln Glu Glu
 115 120 125
 Asn Thr Asn Ile Ser Leu Leu Val Ala Arg Pro Glu Ser Gln Leu Ala
 130 135 140
 Lys Arg Trp Lys Asp Ser Asp Arg Asp Asp Phe Leu Asp Asp Phe Gly
 145 150 155 160
 Ser Glu Asn Glu Gly Glu Leu Arg Ala Arg Lys Leu Lys Ser Pro Pro
 165 170 175
 Ala Gln Gln Pro Gly Asn Glu Glu Glu Lys Gly Ala Pro Asp Ala Gly
 180 185 190
 Pro Gly Leu Ser Asn Ser Gln Glu Leu Asp Ser Gly Val Gly Arg Thr
 195 200 205
 Asp Glu Ser Thr Arg Asn Glu Glu Ser Ser Glu His Asp Leu Leu Gly
 210 215 220

Asp Glu Pro Pro Ser Ser Thr Asn Thr Pro Gly Ser Leu Arg Lys Phe
225 230 235 240
Gly Leu Gln Gly Asp Ala Leu Gln Ser Arg Asp Phe His Phe Ser Met
245 250 255
Asp Ser Leu Leu Ala Glu Gly Ala Gly Leu Gly Gly Gly Asp Val Pro
260 265 270
Gly Leu Thr Asp Glu Glu Tyr Glu Arg Tyr Arg Glu Leu Leu Glu Ile
275 280 285
Lys Cys His Leu Glu Asn Gly Asn Gln Leu Gly Leu Leu Phe Pro Arg
290 295 300
Ala Ser Gly Gly Asn Ser Ala Leu Asp Val Asn Arg Asn Glu Ser Leu
305 310 315 320
Gly His Glu Met Ala Met Leu Glu Glu Glu Leu Arg His Leu Glu Phe
325 330 335
Lys Cys Arg Asn Ile Leu Arg Ala Gln Lys Met Gln Gln Leu Arg Glu
340 345 350
Arg Cys Met Lys Ala Trp Leu Leu Glu Glu Glu Ser Leu Tyr Asp Leu
355 360 365
Ala Ala Ser Glu Pro Lys Lys His Glu Leu Ser Asp Ile Ser Glu Leu
370 375 380
Pro Glu Lys Ser Asp Lys Asp Ser Thr Ser Thr Tyr Asn Thr Gly Glu
385 390 395 400
Ser Cys Arg Ser Thr Pro Leu Leu Val Glu Pro Leu Pro Glu Ser Pro
405 410 415
Leu Arg Arg Ala Thr Ala Gly Asn Ser Asn Leu Asn Arg Thr Pro Pro
420 425 430
Gly Pro Ala Val Ala Thr Pro Ala Lys Ala Ala Pro Pro Pro Gly Ser
435 440 445
Pro Ala Lys Phe Arg Ser Leu Ser Arg Asp Pro Glu Ala Gly Arg Arg

450 455 460
Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu Thr
465 470 475 480
Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Ser Arg Arg His
 485 490 495
Arg Gly Gln Gly Gln Glu Gly Glu His Tyr His Ser Cys Val Gln Leu
 500 505 510
Ala Pro Thr Arg Gly Leu Glu Glu Leu Gly His Gly Pro Leu Ser Leu
 515 520 525
Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Ala Thr Glu Ala
 530 535 540
Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg Tyr
545 550 555 560
Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala Leu
 565 570 575
Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Asp Ala Val
 580 585 590
Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys Gln
 595 600 605
His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met Met
 610 615 620
Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser Lys
625 630 635 640
Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys Lys
 645 650 655
Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met Leu
 660 665 670
Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro Leu
 675 680 685

Leu Ser Val Thr Thr Val

690

<210> 3179

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3179

Met Arg Lys Asn Phe Gly Val Arg Ala Glu Leu Cys Glu Gly Leu Leu

1 5 10 15

Gly Trp Gly Ile Ser Ser Tyr Gly Pro His Ala Ile Tyr Leu Leu Leu

20 25 30

Glu Arg Gly Asp Phe Glu Trp Val Gly Met Asp Arg Cys Ser Ser Arg

35 40 45

Lys Pro Cys Trp Leu Met Gly Thr Thr Ser Val Tyr Tyr Cys Asp Ser

50 55 60

Leu Cys Lys Leu Pro Met Trp Pro Arg Thr Pro Leu Leu Pro Gly His

65 70 75 80

Phe Leu Pro Pro His Cys Thr Gly Leu Asn His Ser Ala Cys Cys Cys

85 90 95

Cys Thr Met Leu Gly Cys Gly Arg Ile Gly Lys Gly Phe Cys

100 105 110

<210> 3180

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3180

```

Met Glu Phe Gln Thr Leu Leu Leu Gly Thr Glu Gln Asn Phe Glu Asp
  1             5             10            15
Ala Leu Ile Leu Ser Ser His Glu Gly Ser Val Gln Glu Gln Val Thr
      20             25            30
Lys Trp Arg Pro Glu Thr Lys Arg Thr Asn Glu Leu Ser Tyr Arg Asp
      35            40            45
Leu Leu Ala Leu Leu Pro Leu Phe Thr Thr Arg Arg Gln Thr Ser Leu
      50            55            60
Ile Phe Lys Lys Leu Leu Phe Asp Leu Ser Glu Ser Gln Pro Arg Asn
      65            70            75            80
His Gly Cys Met Ile Phe Asp Leu Asp Phe Glu Asp Ser Phe Tyr Lys
      85            90            95
Glu Lys Ser Glu Gln Trp Pro Arg Arg
      100           105

```

<210> 3181

<211> 219

<212> PRT

<213> Homo sapiens

<400> 3181

```

Met Ser Ser Pro His Lys Asn Ser Val Pro Ser Ser Leu Asn Glu Tyr
  1             5             10            15
Glu Val Leu Pro Asn Gly Cys Glu Ala His Trp Glu Val Val Glu Arg
      20             25            30

```

Ile Leu Phe Ile Tyr Ala Lys Leu Asn Pro Gly Ile Ala Tyr Val Gln
35 40 45
Gly Met Asn Glu Ile Val Gly Pro Leu Tyr Tyr Thr Phe Ala Thr Asp
50 55 60
Pro Asn Ser Glu Trp Lys Glu His Ala Glu Ala Asp Thr Phe Phe Cys
65 70 75 80
Phe Thr Asn Leu Met Ala Glu Ile Arg Asp Asn Phe Ile Lys Ser Leu
85 90 95
Asp Asp Ser Gln Cys Gly Ile Thr Tyr Lys Met Glu Lys Val Tyr Ser
100 105 110
Thr Leu Lys Asp Lys Asp Val Glu Leu Tyr Leu Lys Leu Gln Glu Gln
115 120 125
Asn Ile Lys Pro Gln Phe Phe Ala Phe Arg Trp Leu Thr Leu Leu Leu
130 135 140
Ser Gln Glu Phe Leu Leu Pro Asp Val Ile Arg Ile Trp Asp Ser Leu
145 150 155 160
Phe Ala Asp Asp Asn Arg Phe Asp Phe Leu Leu Leu Val Cys Cys Ala
165 170 175
Met Leu Met Leu Ile Arg Glu Gln Leu Leu Glu Gly Asp Phe Thr Val
180 185 190
Asn Met Arg Leu Leu Gln Asp Tyr Pro Ile Thr Asp Val Cys Gln Ile
195 200 205
Leu Gln Lys Ala Lys Glu Leu Gln Asp Ser Lys
210 215

<210> 3182

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3182

Met Glu Arg Val Ile Ile Cys Asp Pro Gly Ser Leu Leu Tyr Asn Tyr
1 5 10 15
Gln Ala Asp Leu Glu Gln Ile Thr Leu Leu Ser Leu Val Ser Phe Val
20 25 30
Val Val Leu Phe Leu Phe Leu Arg Trp Ser Phe Ala Leu Val Ala Gln
35 40 45
Ala Gly Val Gln Leu His Asp Leu Ser Ser Pro Gln Pro Pro Pro Pro
50 55 60
Arg Phe Lys Gln Phe Ser Cys Pro Ser Leu Pro Ser Ser Trp Asp Tyr
65 70 75 80
Arg His Ala Pro Pro His Pro Ala Asn Ser Val Phe Leu Val Glu Thr
85 90 95
Gly Phe Leu His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Asp
100 105 110
Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser
115 120 125
His His Ala Arg Pro Ser Pro Val Ser Leu
130 135

<210> 3183

<211> 838

<212> PRT

<213> Homo sapiens

<400> 3183

Met Thr Gly Ala Glu Ile Glu Pro Ser Ala Gln Ala Lys Pro Glu Lys
 1 5 10 15
 Lys Ala Gly Glu Glu Val Ile Ala Gly Pro Glu Arg Glu Asn Asp Val
 20 25 30
 Pro Leu Val Val Arg Pro Lys Val Arg Thr Gln Ala Thr Thr Gly Ala
 35 40 45
 Arg Pro Lys Thr Glu Thr Lys Ser Val Pro Ala Ala Arg Pro Lys Thr
 50 55 60
 Glu Ala Gln Ala Met Ser Gly Ala Arg Pro Lys Thr Glu Val Gln Val
 65 70 75 80
 Met Gly Gly Ala Arg Pro Lys Thr Glu Ala Gln Arg Ile Thr Gly Ala
 85 90 95
 Arg Pro Lys Thr Asp Ala Arg Ala Val Gly Gly Ala Arg Ser Lys Thr
 100 105 110
 Asp Ala Lys Ala Ile Pro Gly Ala Arg Pro Lys Asp Glu Ala Gln Ala
 115 120 125
 Trp Ala Gln Ser Glu Phe Gly Thr Glu Ala Val Ser Gln Ala Glu Gly
 130 135 140
 Val Ser Gln Thr Asn Ala Val Ala Trp Pro Leu Ala Thr Ala Glu Ser
 145 150 155 160
 Gly Ser Val Thr Lys Ser Lys Gly Leu Ser Met Asp Arg Glu Leu Val
 165 170 175
 Asn Val Asp Ala Glu Thr Phe Pro Gly Thr Gln Gly Gln Lys Gly Ile
 180 185 190
 Gln Pro Trp Phe Gly Pro Gly Glu Glu Thr Asn Met Gly Ser Trp Cys
 195 200 205
 Tyr Ser Arg Pro Arg Ala Arg Glu Glu Ala Ser Asn Glu Ser Gly Phe
 210 215 220
 Trp Ser Ala Asp Glu Thr Ser Thr Ala Ser Ser Phe Trp Thr Gly Glu

225 230 235 240
Glu Thr Ser Val Arg Ser Trp Pro Arg Glu Glu Ser Asn Thr Arg Ser
 245 250 255
Arg His Arg Ala Lys His Gln Thr Asn Pro Arg Ser Arg Pro Arg Ser
 260 265 270
Lys Gln Glu Ala Tyr Val Asp Ser Trp Ser Gly Ser Glu Asp Glu Ala
 275 280 285
Ser Asn Pro Phe Ser Phe Trp Val Gly Glu Asn Thr Asn Asn Leu Phe
 290 295 300
Arg Pro Arg Val Arg Glu Glu Ala Asn Ile Arg Ser Lys Leu Arg Thr
305 310 315 320
Asn Arg Glu Asp Cys Phe Glu Ser Glu Ser Glu Asp Glu Phe Tyr Lys
 325 330 335
Gln Ser Trp Val Leu Pro Gly Glu Glu Ala Asn Ser Arg Phe Arg His
 340 345 350
Arg Asp Lys Glu Asp Pro Asn Thr Ala Leu Lys Leu Arg Ala Gln Lys
 355 360 365
Asp Val Asp Ser Asp Arg Val Lys Gln Glu Pro Arg Phe Glu Glu Glu
 370 375 380
Val Ile Ile Gly Ser Trp Phe Trp Ala Glu Lys Glu Ala Ser Leu Glu
385 390 395 400
Gly Gly Ala Ser Ala Ile Cys Glu Ser Glu Pro Gly Thr Glu Glu Gly
 405 410 415
Ala Ile Gly Gly Ser Ala Tyr Trp Ala Glu Glu Lys Ser Ser Leu Gly
 420 425 430
Ala Val Ala Arg Glu Glu Ala Lys Pro Glu Ser Glu Glu Glu Ala Ile
 435 440 445
Phe Gly Ser Trp Phe Trp Asp Arg Asp Glu Ala Cys Phe Asp Leu Asn
 450 455 460

Pro Cys Pro Val Tyr Lys Val Ser Asp Arg Phe Arg Asp Ala Ala Glu
 465 470 475 480
 Glu Leu Asn Ala Ser Ser Arg Pro Gln Thr Trp Asp Glu Val Thr Val
 485 490 495
 Glu Phe Lys Pro Gly Leu Phe His Gly Val Gly Phe Arg Ser Thr Ser
 500 505 510
 Pro Phe Gly Ile Pro Glu Glu Ala Ser Glu Met Leu Glu Ala Lys Pro
 515 520 525
 Lys Asn Leu Glu Leu Ser Pro Glu Gly Glu Glu Gln Glu Ser Leu Leu
 530 535 540
 Gln Pro Asp Gln Pro Ser Pro Glu Phe Thr Phe Gln Tyr Asp Pro Ser
 545 550 555 560
 Tyr Arg Ser Val Arg Glu Ile Arg Glu His Leu Arg Ala Arg Glu Ser
 565 570 575
 Ala Glu Ser Glu Ser Trp Ser Cys Ser Cys Ile Gln Cys Glu Leu Lys
 580 585 590
 Ile Gly Ser Glu Glu Phe Glu Glu Phe Leu Leu Leu Met Asp Lys Ile
 595 600 605
 Arg Asp Pro Phe Ile His Glu Ile Ser Lys Ile Ala Met Gly Met Arg
 610 615 620
 Ser Ala Ser Gln Phe Thr Arg Asp Phe Ile Arg Asp Ser Gly Val Val
 625 630 635 640
 Ser Leu Ile Gly Thr Leu Leu Asn Tyr Pro Ser Ser Arg Val Arg Thr
 645 650 655
 Ser Phe Leu Glu Asn Met Ile His Met Ala Pro Pro Tyr Pro Asn Leu
 660 665 670
 Asn Met Ile Glu Thr Phe Ile Cys Gln Val Cys Glu Glu Thr Leu Ala
 675 680 685
 His Ser Val Asp Ser Leu Glu Gln Leu Thr Gly Ile Arg Met Leu Arg

690	695	700
His Leu Thr Met Thr Ile Asp Tyr His Thr Leu Ile Ala Asn Tyr Met		
705	710	715
Ser Gly Phe Leu Ser Leu Leu Thr Thr Ala Asn Ala Arg Thr Lys Phe		
	725	730
His Val Leu Lys Met Leu Leu Asn Leu Ser Glu Asn Pro Ala Val Ala		
	740	750
Lys Lys Leu Phe Ser Ala Lys Ala Leu Ser Ile Phe Val Gly Leu Phe		
	755	760
Asn Ile Glu Glu Thr Asn Asp Asn Ile Gln Ile Val Ile Lys Met Phe		
	770	780
Gln Asn Ile Ser Asn Ile Ile Lys Ser Gly Lys Met Ser Leu Ile Asp		
785	790	795
Asp Asp Phe Ser Leu Glu Pro Leu Ile Ser Ala Phe Arg Glu Phe Glu		
	805	810
Glu Leu Ala Lys Gln Leu Gln Ala Gln Ile Asp Asn Gln Asn Asp Pro		
	820	830
Glu Val Gly Gln Gln Ser		
	835	

<210> 3184

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3184

Met Lys Gln Thr Arg Ser Ile Gln Lys Leu Pro Ala Asn Lys Lys Cys

1

5

10

15

Gln Ile Ser Val His His Lys Ser Lys Tyr Pro Trp Val Ser Ile Asn
 20 25 30
 Phe Asn Lys Gln Asn Ile Phe Gly Ser Val Leu Phe Asp Met Asp Leu
 35 40 45
 Gln Arg Ser Leu Pro Asn His Phe Phe Leu Ser Leu Cys Glu Met Ser
 50 55 60
 Val Lys Glu Lys Ile Gly Glu Trp Trp Ser His Tyr Trp Ile Ile Ser
 65 70 75 80
 Ile Ile Leu Tyr Lys Lys Asp Lys Leu Phe Asp Ile Gln Asp Met Tyr
 85 90 95
 Ser Ala Gln Arg His Gln Phe Gly Gly Glu Leu Met Thr Leu Ser Pro
 100 105 110
 Ile Phe

<210> 3185

<211> 294

<212> PRT

<213> Homo sapiens

<400> 3185

Met Leu Arg Gln Val Leu Arg Arg Gly Leu Gln Ser Phe Cys His Arg
 1 5 10 15
 Leu Gly Leu Cys Val Ser Arg His Pro Val Phe Phe Leu Thr Val Pro
 20 25 30
 Ala Val Leu Thr Ile Thr Phe Gly Leu Ser Ala Leu Asn Arg Phe Gln
 35 40 45
 Pro Glu Gly Asp Leu Glu Arg Leu Val Ala Pro Ser His Ser Leu Ala

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Thr Glu Phe Thr Ser Ser

290

<210> 3186

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3186

Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly Glu Gly Gly

1 5 10 15

Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp Gln Ser Arg

20 25 30

Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro Leu Arg Ala

35 40 45

Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His Leu Met Gly

50 55 60

His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser Tyr Leu Leu

65 70 75 80

Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val Met Asp Gly

85 90 95

Thr Ala Ala Ile Arg Leu

100

<210> 3187

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3187

```

Met Pro Ser Trp Arg Leu Ser Leu Phe Ile Ile Gly Ser His Ser Leu
  1             5             10             15
Val Gly Tyr Leu Cys Asp Leu Ala Ser Asp Val Pro Gly Gln Arg Pro
      20             25             30
Pro Trp Leu Gln Pro Arg Arg Arg Thr Arg Ser Arg Val Gly Trp Ser
      35             40             45
Gly Ser Trp Glu Glu Arg Val Ser Ala Cys Pro Gly Thr Pro Ser Ser
      50             55             60
Arg Glu Asp Thr Glu Ala Arg Thr Pro Leu Gly Phe Pro Gly Lys Trp
      65             70             75             80
Arg Arg Ser Val Leu Gly Arg Ser Ser Glu Leu Ile Pro Pro Arg Ile
      85             90             95
Gly Ala Gly Leu
      100

```

<210> 3188

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3188

```

Met Gly Asn Phe Trp Lys Gly Arg Gln Pro Phe Leu Lys Phe Gln Asn
  1             5             10             15
Glu Lys Asp Val Ile Leu Ile Leu Thr Gly Ser Leu Phe Ile Phe Leu
      20             25             30

```

Lys Lys Glu Ser Phe Leu Leu Ser His Phe Gln Leu Phe Phe Ser Leu
 35 40 45
 Leu Phe Phe Phe Ser Phe Leu Ser Pro Leu Leu Leu Phe Leu Phe Pro
 50 55 60
 Ser Pro Pro Pro Phe Phe Phe Phe Tyr Cys Ser Leu Gln Ser Arg Ala
 65 70 75 80
 Thr Pro Ile Gly Ser Val Thr Lys Val Thr Pro Ser Ser His Phe Cys
 85 90 95
 Pro Asp Phe Phe Ser Leu Phe Gln Ala Val Arg Leu Ser Cys Cys Leu
 100 105 110
 Cys Ser Trp Ala Ile Ile Pro Ser Phe Ala Tyr Cys Arg Leu
 115 120 125

<210> 3189

<211> 162

<212> PRT

<213> Homo sapiens

<400> 3189

Met Ser Lys Arg Leu Gln Ala Ala Ser Glu Ile Gln Pro Gly Asn Cys
 1 5 10 15
 Pro Gly Ser Ser Val Leu Pro Gly Met Glu Gly Pro Leu Ile Lys Pro
 20 25 30
 Ser Thr Pro Arg Leu Pro Pro Thr Leu Asp Arg Asp His His Tyr Leu
 35 40 45
 Gly Leu Asp Ala Gly Gly Thr Thr Ser Cys Pro Asn Ala Val Ala Trp
 50 55 60
 Ala Gln Ala Pro Gln Ala Leu Gly Pro Arg His Val Asp Lys Ala Thr

65 70 75 80
 His His Ile Cys Gly Trp Leu Glu Ala Ala Leu Gly Pro Ser Cys Asp
 85 90 95
 Pro Gln Pro Trp Arg Ser Gly Cys Pro His Thr Trp Gly Ser Val Leu
 100 105 110
 Ser His Pro Met Pro Ala Ala Pro Cys Phe Trp Arg Ser Ser Pro Ser
 115 120 125
 Pro Pro Val Ser Ala Met Ser Pro Cys His Pro Val Gln Ala Met Pro
 130 135 140
 Phe Leu Gly Ser Ser Cys Pro Met Pro Glu Ala Arg Pro Phe Ser Trp
 145 150 155 160
 Phe Thr

<210> 3190

<211> 680

<212> PRT

<213> Homo sapiens

<400> 3190

Met Gly Cys Gly Thr Lys Glu Pro Lys Ile Thr Gln Leu Cys Leu Ala
 1 5 10 15
 Ala Ile Gln Arg Leu Met Ser His Glu Val Val Ser Glu Thr Ala Ala
 20 25 30
 Gly Asn Ile Ile Asn Met Leu Trp Gln Leu Met Glu Asn Ser Leu Glu
 35 40 45
 Glu Leu Lys Leu Leu Gln Thr Val Leu Val Leu Leu Thr Thr Asn Thr
 50 55 60

Val Val His Asp Glu Ala Leu Ser Lys Ala Ile Val Leu Cys Phe Arg
65 70 75 80
Leu His Phe Thr Lys Asp Asn Ile Thr Asn Asn Thr Ala Ala Ala Thr
85 90 95
Val Arg Gln Val Val Thr Val Val Phe Glu Arg Met Val Ala Glu Asp
100 105 110
Glu Arg His Arg Asp Ile Ile Glu Gln Pro Val Leu Val Gln Gly Asn
115 120 125
Ser Asn Arg Arg Ser Val Ser Thr Leu Lys Pro Cys Ala Lys Asp Ala
130 135 140
Tyr Met Leu Phe Gln Asp Leu Cys Gln Leu Val Asn Ala Asp Ala Pro
145 150 155 160
Tyr Trp Leu Val Gly Met Thr Glu Met Thr Arg Thr Phe Gly Leu Glu
165 170 175
Leu Leu Glu Ser Val Leu Asn Asp Phe Pro Gln Val Phe Leu Gln His
180 185 190
Gln Glu Phe Ser Phe Leu Leu Lys Glu Arg Val Cys Pro Leu Val Ile
195 200 205
Lys Leu Phe Ser Pro Asn Ile Lys Phe Arg Gln Gly Ser Ser Thr Ser
210 215 220
Ser Ser Pro Ala Pro Val Glu Lys Pro Tyr Phe Pro Ile Cys Met Arg
225 230 235 240
Leu Leu Arg Val Val Ser Val Leu Ile Lys Gln Phe Tyr Ser Leu Leu
245 250 255
Val Thr Glu Cys Glu Ile Phe Leu Ser Leu Leu Val Lys Phe Leu Asp
260 265 270
Ala Asp Lys Pro Gln Trp Leu Arg Ala Val Ala Val Glu Ser Ile His
275 280 285
Arg Phe Arg Val Gln Pro Gln Leu Leu Arg Ser Phe Cys Gln Ser Tyr

290	295	300
Asp Met Lys Gln His Ser Thr Lys Val Phe Arg Asp Ile Val Asn Ala		
305	310	315
Leu Gly Ser Phe Ile Gln Ser Leu Phe Leu Val Pro Pro Thr Gly Asn		
325	330	335
Pro Ala Thr Ser Asn Gln Ala Gly Asn Asn Asn Leu Gly Gly Ser Val		
340	345	350
Ser Ala Pro Ala Asn Ser Gly Met Val Gly Ile Gly Gly Gly Val Thr		
355	360	365
Leu Leu Pro Ala Phe Glu Tyr Arg Gly Thr Trp Ile Pro Ile Leu Thr		
370	375	380
Ile Thr Val Gln Gly Ser Ala Lys Ala Thr Tyr Leu Glu Met Leu Asp		
385	390	395
Lys Val Glu Pro Pro Thr Ile Pro Glu Gly Tyr Ala Met Ser Val Ala		
405	410	415
Phe His Cys Leu Leu Asp Leu Val Arg Gly Ile Thr Ser Met Ile Glu		
420	425	430
Gly Glu Leu Gly Glu Leu Glu Thr Glu Cys Gln Thr Thr Thr Glu Glu		
435	440	445
Gly Ser Ser Pro Thr Gln Ser Thr Glu Gln Gln Asp Leu Gln Ser Thr		
450	455	460
Ser Asp Gln Met Asp Lys Glu Ile Val Ser Arg Ala Val Trp Glu Glu		
465	470	475
Met Val Asn Ala Cys Trp Cys Gly Leu Leu Ala Ala Leu Ser Leu Leu		
485	490	495
Leu Asp Ala Ser Thr Asp Glu Ala Ala Thr Glu Asn Ile Leu Lys Ala		
500	505	510
Glu Leu Thr Met Ala Ala Leu Cys Gly Arg Leu Gly Leu Val Thr Ser		
515	520	525

Arg Asp Ala Phe Ile Thr Ala Ile Cys Lys Gly Ser Leu Pro Pro His
530 535 540
Tyr Ala Leu Thr Val Leu Asn Thr Thr Thr Ala Ala Thr Leu Ser Asn
545 550 555 560
Lys Ser Tyr Ser Val Gln Gly Gln Ser Val Met Met Ile Ser Pro Ser
565 570 575
Ser Glu Ser His Gln Gln Val Val Ala Val Gly Gln Pro Leu Ala Val
580 585 590
Gln Pro Gln Gly Thr Val Met Leu Thr Ser Lys Asn Ile Gln Cys Met
595 600 605
Arg Thr Leu Leu Asn Leu Ala His Cys His Gly Ala Val Leu Gly Thr
610 615 620
Ser Trp Gln Leu Val Leu Ala Thr Leu Gln His Leu Val Trp Ile Leu
625 630 635 640
Gly Leu Lys Pro Ser Ser Gly Gly Ala Leu Lys Pro Gly Arg Ala Val
645 650 655
Glu Gly Pro Ser Thr Val Pro Phe Lys Asp Phe Met Gln Pro Pro Ala
660 665 670
Ser Arg Val Gln Asn Gly Glu Ser
675 680

<210> 3191

<211> 198

<212> PRT

<213> Homo sapiens

<400> 3191

Met Cys Gly Ile Tyr Ala His Val Gln Glu Lys Pro Arg Thr Gln Ser

1 5 10 15
Ser Leu Asp Leu Met Gln Ile Pro Pro Ala Lys Ala Ser Ala Phe Ser
20 25 30
Asp Pro Ala Cys Pro Gly Asp Pro Thr Pro His Leu Leu Leu Glu Leu
35 40 45
Leu Asp Cys Thr Glu Val Gly Leu Val Val Gly Ala His Gly Gly Leu
50 55 60
Val Ala Leu Ala Pro Leu Glu Glu Cys Gly Leu Gln Leu Cys Ile Leu
65 70 75 80
Leu Leu Gln Leu Ala His Leu Leu Gln Val Val Gly Gln Ala Val Ile
85 90 95
Gln Glu Leu His Gly Leu Leu Leu Met Ala Ile Gln Gly Val Phe Ala
100 105 110
Val Gly Pro Thr Asp Ser Asp Val Ala Gly Asn Val Thr Gly Pro Trp
115 120 125
Gln Gly Thr Ser Ser Val Thr Gly Trp Gly Gln Thr Glu Ala Gly Ala
130 135 140
Ala Gln Gly Ser Arg Pro His Thr Asp Ser Val Gly Val Cys His Val
145 150 155 160
Gly Gln Glu Ala His Gly Gly Ser Ile Gly Leu Cys His Arg Leu Ala
165 170 175
Pro Asn Ile Asp Arg Arg Asp Lys Asp Ile Ser Cys Ser Arg Ser His
180 185 190
Gly Ala Thr Gln Arg Ala
195

<210> 3192

<211> 225

<212> PRT

<213> Homo sapiens

<400> 3192

Met	Ala	Thr	Phe	Ile	Gly	Ala	Ala	Val	Ser	Asn	Ser	Ser	Arg	Gly	Thr
1				5				10						15	
Ala	Pro	Cys	Gly	Thr	Gly	Leu	Pro	Pro	Arg	Gln	His	Ala	Gln	Ser	Ser
			20					25					30		
Ser	Ser	Gly	Val	Ile	Leu	Ser	Ser	Tyr	Leu	Tyr	Pro	Leu	Leu	Ile	Thr
			35					40					45		
Cys	Lys	Leu	Arg	Gly	Arg	Leu	Phe	Arg	Ile	Phe	Trp	Thr	Lys	Asp	Asp
			50				55				60				
Thr	Ser	Arg	Pro	Leu	Pro	Trp	Lys	Gly	Val	Val	Thr	Phe	Arg	Cys	Cys
			65				70				75				80
His	His	Cys	Gly	Lys	Leu	Thr	Trp	Cys	Cys	Trp	Val	Cys	Leu	Met	Glu
				85						90				95	
Arg	Cys	Phe	His	Cys	Phe	Pro	Val	His	Leu	Val	Phe	Asn	Leu	Val	Gln
			100						105					110	
Ser	Phe	Ser	Pro	Thr	Ser	Gly	Val	Glu	Ser	Cys	Leu	Leu	Pro	Gln	Cys
			115						120					125	
Asp	Lys	Cys	Trp	Pro	Met	Val	Tyr	Arg	Ser	Cys	Asp	Ala	Ser	Arg	Gly
			130						135					140	
Leu	Val	Asn	Ala	Cys	Ile	Leu	Gly	Phe	Val	Leu	Leu	Glu	Cys	Ser	Phe
			145					150				155			160
Val	Gly	Ala	Leu	Asn	Asn	Tyr	Val	Arg	Ser	Leu	Ala	Thr	Leu	Leu	Glu
				165					170					175	
Arg	Thr	His	Gly	Gly	Lys	Arg	Leu	Lys	Leu	Cys	Glu	Glu	Ser	Gln	Ala
				180					185					190	
Ser	His	Pro	Ser	Phe	Ser	Ala	Glu	Pro	Arg	His	Gln	Pro	Thr	Cys	Gln

195 200 205
Leu Asn Ala Thr Val Arg Val Ile Thr Ser Lys Ile Thr Arg Lys Thr
210 215 220
Thr
225

<210> 3193

<211> 590

<212> PRT

<213> Homo sapiens

<400> 3193

Met Ala Thr Pro Arg Gly Arg Thr Lys Lys Lys Ala Ser Phe Asp His
1 5 10 15
Ser Pro Asp Ser Leu Pro Leu Arg Ser Ser Gly Arg Gln Ala Lys Lys
20 25 30
Lys Ala Thr Glu Thr Thr Asp Glu Asp Glu Asp Gly Gly Ser Glu Lys
35 40 45
Lys Tyr Arg Lys Cys Glu Lys Ala Gly Cys Thr Ala Thr Cys Pro Val
50 55 60
Cys Phe Ala Ser Ala Ser Glu Arg Cys Ala Lys Asn Gly Tyr Thr Ser
65 70 75 80
Arg Trp Tyr His Leu Ser Cys Gly Glu His Phe Cys Asn Glu Cys Phe
85 90 95
Asp His Tyr Tyr Arg Ser His Lys Asp Gly Tyr Asp Lys Tyr Thr Thr
100 105 110
Trp Lys Lys Ile Trp Thr Ser Asn Gly Lys Thr Glu Pro Ser Pro Lys
115 120 125

Ala Phe Met Ala Asp Gln Gln Leu Pro Tyr Trp Val Gln Cys Thr Lys
130 135 140
Pro Glu Cys Arg Lys Trp Arg Gln Leu Thr Lys Glu Ile Gln Leu Thr
145 150 155 160
Pro Gln Ile Ala Lys Thr Tyr Arg Cys Gly Met Lys Pro Asn Thr Ala
165 170 175
Ile Lys Pro Glu Thr Ser Asp His Cys Ser Leu Pro Glu Asp Leu Glu
180 185 190
Ala Leu Thr Pro Gln Lys Cys Ile Pro His Ile Ile Val Arg Gly Leu
195 200 205
Val Arg Ile Arg Cys Val Gln Glu Val Glu Arg Ile Leu Tyr Phe Met
210 215 220
Thr Arg Lys Gly Leu Ile Asn Thr Gly Val Leu Ser Val Gly Ala Asp
225 230 235 240
Gln Tyr Leu Leu Pro Lys Asp Tyr His Asn Lys Ser Val Ile Ile Ile
245 250 255
Gly Ala Gly Pro Ala Gly Leu Ala Ala Ala Arg Gln Leu His Asn Phe
260 265 270
Gly Ile Lys Val Thr Val Leu Glu Ala Lys Asp Arg Ile Gly Gly Arg
275 280 285
Val Trp Asp Asp Lys Ser Phe Lys Gly Val Thr Val Gly Arg Gly Ala
290 295 300
Gln Ile Val Asn Gly Cys Ile Asn Asn Pro Val Ala Leu Met Cys Glu
305 310 315 320
Gln Val Ser Ala Arg Ser Trp Asp His Asn Glu Phe Phe Ala Gln Phe
325 330 335
Ala Gly Asp His Thr Leu Leu Thr Pro Gly Tyr Ser Val Ile Ile Glu
340 345 350
Lys Leu Ala Glu Gly Leu Asp Ile Gln Leu Lys Ser Pro Val Gln Cys

355	360	365
Ile Asp Tyr Ser Gly Asp Glu Val Gln Val Thr Thr Thr Asp Gly Thr		
370	375	380
Gly Tyr Ser Ala Gln Lys Val Leu Val Thr Val Pro Leu Ala Leu Leu		
385	390	395
Gln Lys Gly Ala Ile Gln Phe Asn Pro Pro Leu Ser Glu Lys Lys Met		
405	410	415
Lys Ala Thr Asn Ser Leu Gly Ala Gly Ile Ile Glu Lys Ile Ala Leu		
420	425	430
Gln Phe Pro Tyr Arg Phe Trp Asp Ser Lys Val Gln Gly Ala Asp Phe		
435	440	445
Phe Gly His Val Pro Pro Ser Ala Ser Lys Arg Gly Leu Phe Ala Val		
450	455	460
Phe Tyr Asp Met Asp Pro Gln Lys Lys His Ser Val Leu Met Ser Val		
465	470	475
Ile Ala Gly Glu Ala Val Ala Ser Val Arg Thr Leu Asp Asp Lys Gln		
485	490	495
Val Leu Gln Gln Cys Met Ala Thr Leu Arg Glu Leu Phe Lys Glu Gln		
500	505	510
Glu Val Pro Asp Pro Thr Lys Tyr Phe Val Thr Arg Trp Ser Thr Asp		
515	520	525
Pro Trp Ile Gln Met Ala Tyr Ser Phe Val Lys Thr Gly Gly Ser Gly		
530	535	540
Glu Ala Tyr Asp Ile Ile Ala Glu Asp Ile Gln Gly Thr Val Phe Phe		
545	550	555
Ala Gly Glu Ala Thr Asn Arg His Phe Pro Gln Thr Val Thr Gly Ala		
565	570	575
Tyr Leu Ser Gly Val Arg Glu Ala Ser Lys Ile Ala Ala Phe		
580	585	590

<210> 3194

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3194

```

Met Thr Arg Thr Pro Val Gly Ser Ala Arg Thr Arg Pro Lys Pro Arg
  1             5             10             15
Lys Leu Gly Pro Gln Arg Gly Lys Ala Leu Gln Ala Ser Ser Arg Leu
          20             25             30
Ser Glu Ser Pro Ala Leu Val Lys Lys Arg Met Pro Asp Ala Cys Thr
          35             40             45
Leu Gly Arg Ala Gly Ile Gly Leu Pro Lys Met Cys Leu His Met Ala
          50             55             60
Val Arg His Ser Lys Ala Gln Lys Thr Gly Pro Gly Ile Leu Gln Gln
          65             70             75             80
Arg Gln Lys Pro Pro Ala Pro Arg Ala Ser Gly Gly Pro Ala Leu Leu
          85             90             95
Gly Lys Arg Arg Gly Cys Ser Glu Ala Gly Ser Ala Ser Leu Glu Pro
          100            105            110
Leu Ser Ser Ser Arg Ala Ala Ala Gly Cys Leu Asn Gln Val Pro Leu
          115            120            125
Ser Pro Phe Leu Ala Gly Pro Arg Asn Thr Arg Arg Leu Pro Ala Pro
          130            135            140
Glu Arg Glu Arg Ile Glu Leu Ala Ala Thr Leu Cys Leu Glu Gly Trp
          145            150            155            160
Pro Leu Arg Cys Leu Ala Ser Lys Gly Lys Leu His Cys Val Tyr

```

165

170

175

<210> 3195

<211> 235

<212> PRT

<213> Homo sapiens

<400> 3195

Met Arg Pro Asp Asp Ile Asn Pro Arg Thr Gly Leu Val Val Ala Leu

1

5

10

15

Val Ser Val Phe Leu Val Phe Gly Phe Met Phe Thr Val Ser Gly Met

20

25

30

Lys Gly Glu Thr Leu Gly Asn Ile Pro Leu Leu Ala Ile Gly Pro Ala

35

40

45

Ile Cys Leu Pro Gly Ile Ala Ala Ile Ala Leu Ala Arg Lys Thr Glu

50

55

60

Gly Cys Thr Lys Arg Pro Glu Asn Glu Leu Leu Trp Val Arg Lys Leu

65

70

75

80

Pro Cys Phe Arg Lys Pro Lys Asp Lys Glu Val Val Glu Leu Leu Arg

85

90

95

Thr Pro Ser Asp Leu Glu Ser Gly Lys Gly Ser Ser Asp Glu Leu Ala

100

105

110

Lys Lys Ala Gly Leu Arg Gly Lys Pro Pro Pro Gln Ser Gln Gly Glu

115

120

125

Val Ser Val Ala Ser Ser Ile Asn Ser Pro Thr Pro Thr Glu Glu Gly

130

135

140

Glu Cys Gln Ser Leu Val Gln Asn Gly His Gln Glu Glu Thr Ser Arg

145

150

155

160

Tyr Leu Asp Gly Tyr Cys Pro Ser Gly Ser Ser Leu Thr Tyr Ser Ala
 165 170 175
 Leu Asp Val Lys Cys Ser Ala Arg Asp Arg Ser Glu Cys Pro Glu Pro
 180 185 190
 Glu Asp Ser Ile Phe Phe Val Pro Gln Asp Ser Ile Ile Val Cys Ser
 195 200 205
 Tyr Lys Gln Asn Ser Pro Tyr Asp Arg Tyr Cys Cys Tyr Ile Asn Gln
 210 215 220
 Ile Gln Gly Arg Trp Asp His Glu Thr Ile Val
 225 230 235

<210> 3196

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3196

Met Tyr Trp Gln Asn Trp Thr His Asn Gly Arg Phe Trp Gly Ala Gly
 1 5 10 15
 Val His Leu Tyr Leu Ser Arg Lys Gln Cys Ala Leu Lys Asn Thr Ser
 20 25 30
 Leu Ser Lys Phe Gln Thr Ser His Ile Cys Lys Gly Ser Ala Leu Gln
 35 40 45
 Pro Gln Gln Ala Ser Pro Gly Ala Ser Ser Phe Leu Thr Cys Ser Glu
 50 55 60
 Leu Gly Val Met Tyr Leu Lys Leu Val Leu Gly Gln Met Val Gln Ala
 65 70 75 80
 Val Arg Arg Asp Ser Gly Leu Gln Pro Phe Gly Ser Leu Phe Leu Leu

	85	90	95
Ile Thr Gln Lys Arg Ala Val Leu Thr Pro Phe Leu Thr Lys Thr Trp			
100	105	110	
His Ser Leu Arg Ala Leu Val Tyr Arg Val Trp Ser Leu Glu Glu Ser			
115	120	125	
Arg Tyr Leu Gln Arg Glu Lys Gly Leu Val Asp Ser Phe Gly Val Leu			
130	135	140	
Trp Glu Glu			
145			

<210> 3197

<211> 200

<212> PRT

<213> Homo sapiens

<400> 3197

Met Ala Gly Trp Gly Ser Tyr Ser Val Thr Ala Thr Pro Phe Thr Ala			
1	5	10	15
Val Ile Met Ser Met Leu Ser Thr Ser Leu Glu Ser Leu Val Leu Ser			
20	25	30	
Ser Val Leu Ile Arg Phe Met Ala Leu Asn Pro Arg Ser Gln Gln Glu			
35	40	45	
Val Glu Met Gly Thr Gln Thr Thr Thr Ala Met Ser Leu Leu Ser Arg			
50	55	60	
Gly Lys Arg Gln Cys Trp Ala Arg Ala Phe Leu Gln Ser Met Glu Asn			
65	70	75	80
Gly Arg Cys Trp Ala Met Val Phe Arg Pro Ser His Ser Ser Ser Arg			
85	90	95	

Ala Ser Ser Leu Tyr Pro Val Gly Arg Glu His Ser Lys Tyr Leu Ala
 100 105 110
 Arg Leu Arg Met Ser Ser Phe Pro Lys Leu Ala Ser Ser Ile Pro Leu
 115 120 125
 Gly Gln Ala Met Val Ser Asn Thr Ser Met Phe Phe Ser Cys Gly Gly
 130 135 140
 Arg Ser Ala Ser Asn Leu Cys Trp Arg Tyr Ser Ile Pro Val Arg Thr
 145 150 155 160
 Val Leu Ser Leu Ser Ala Trp Asn Arg Cys Ser Ala Thr Ser Ser Leu
 165 170 175
 Ser Lys Gln Met Pro Trp Ser Arg Pro Ser Leu Lys Leu Ala Leu Asn
 180 185 190
 Ser Ser Ser Leu Gly Pro Ala Trp
 195 200

<210> 3198

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3198

Met Thr Glu Arg Glu Trp Thr Phe Gln Trp Phe Leu Asn Leu Glu Val
 1 5 10 15
 Ile Gln Glu Gly Asp Gly Pro Val Ile Ser Arg Asp Gly Arg Val Leu
 20 25 30
 Thr Ile Pro Thr Val Thr Arg Asn Asp Ser Ser Thr Tyr His Cys Glu
 35 40 45
 Ala Arg Asn His Leu Gly Ser Arg Leu Ser Glu Ala Leu Val Val Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Pro Ala Thr Gln His Leu Val Ile Ser Glu Val Thr Leu Asp Gln
 290 295 300

<210> 3199

<211> 585

<212> PRT

<213> Homo sapiens

<400> 3199

Met Glu Met Arg Leu Pro Ile Arg Ser Pro Ile Lys Arg Asp Phe Leu
 1 5 10 15
 Ser Gly Ile Gln Ile Glu Phe Lys Gln Ser Ser His Gln Arg Ser Leu
 20 25 30
 Arg Ala Arg Leu Tyr Trp Leu Gln Val Asp Asn Gln Leu Pro Gly Ala
 35 40 45
 Met Phe Pro Val Val Phe His Pro Val Ala Pro Pro Lys Ser Ile Ala
 50 55 60
 Leu Asp Ser Glu Pro Lys Pro Phe Ile Asp Val Ser Val Ile Thr Arg
 65 70 75 80
 Phe Asn Glu Tyr Ser Lys Val Leu Gln Phe Lys Tyr Phe Met Val Leu
 85 90 95
 Ile Gln Glu Met Ala Leu Lys Ile Asp Gln Gly Phe Leu Gly Ala Ile
 100 105 110
 Ile Ala Leu Phe Thr Pro Thr Thr Asp Pro Glu Ala Glu Arg Arg Arg
 115 120 125
 Thr Lys Leu Ile Gln Gln Asp Ile Asp Ala Leu Asn Ala Glu Leu Met
 130 135 140
 Glu Thr Ser Met Thr Asp Met Ser Ile Leu Ser Phe Phe Glu His Phe

145 150 155 160
His Ile Ser Pro Val Lys Leu His Leu Ser Leu Ser Leu Gly Ser Gly
 165 170 175
Gly Glu Glu Ser Asp Lys Glu Lys Gln Glu Met Phe Ala Val His Ser
 180 185 190
Val Asn Leu Leu Leu Lys Ser Ile Gly Ala Thr Leu Thr Asp Val Asp
 195 200 205
Asp Leu Ile Phe Lys Leu Ala Tyr Tyr Glu Ile Arg Tyr Gln Phe Tyr
 210 215 220
Lys Arg Asp Gln Leu Ile Trp Ser Val Val Arg His Tyr Ser Glu Gln
225 230 235 240
Phe Leu Lys Gln Met Tyr Val Leu Val Leu Gly Leu Asp Val Leu Gly
 245 250 255
Asn Pro Phe Gly Leu Ile Arg Gly Leu Ser Glu Gly Val Glu Ala Leu
 260 265 270
Phe Tyr Glu Pro Phe Gln Gly Ala Val Gln Gly Pro Glu Glu Phe Ala
 275 280 285
Glu Gly Leu Val Ile Gly Val Arg Ser Leu Phe Gly His Thr Val Gly
 290 295 300
Gly Ala Ala Gly Val Val Ser Arg Ile Thr Gly Ser Val Gly Lys Gly
305 310 315 320
Leu Ala Ala Ile Thr Met Asp Lys Glu Tyr Gln Gln Lys Arg Arg Glu
 325 330 335
Glu Leu Ser Arg Gln Pro Arg Asp Phe Gly Asp Ser Leu Ala Arg Gly
 340 345 350
Gly Lys Gly Phe Leu Arg Gly Val Val Gly Gly Val Thr Gly Ile Ile
 355 360 365
Thr Lys Pro Val Glu Gly Ala Lys Lys Glu Gly Ala Ala Gly Phe Phe
 370 375 380

Lys Gly Ile Gly Lys Gly Leu Val Gly Ala Val Ala Arg Pro Thr Gly
385 390 395 400
Gly Ile Val Asp Met Ala Ser Ser Thr Phe Gln Gly Ile Gln Arg Ala
405 410 415
Ala Glu Ser Thr Glu Glu Val Ser Ser Leu Arg Pro Pro Arg Leu Ile
420 425 430
His Glu Asp Gly Ile Ile Arg Pro Tyr Asp Arg Gln Glu Ser Glu Gly
435 440 445
Ser Asp Leu Leu Glu Asn His Ile Lys Lys Leu Glu Gly Glu Thr Tyr
450 455 460
Arg Tyr His Cys Ala Ile Pro Gly Ser Lys Lys Thr Ile Leu Met Val
465 470 475 480
Thr Asn Arg Arg Val Leu Cys Ile Lys Glu Val Glu Ile Leu Gly Leu
485 490 495
Met Cys Val Asp Trp Gln Cys Pro Phe Glu Asp Phe Val Phe Pro Pro
500 505 510
Ser Val Ser Glu Asn Val Leu Lys Ile Ser Val Lys Glu Gln Gly Leu
515 520 525
Phe His Lys Lys Asp Ser Ala Asn Gln Gly Cys Val Arg Lys Val Tyr
530 535 540
Leu Lys Asp Thr Ala Thr Ala Glu Arg Ala Cys Asn Ala Ile Glu Asp
545 550 555 560
Ala Gln Ser Thr Arg Gln Gln Gln Lys Leu Met Lys Gln Ser Ser Val
565 570 575
Arg Leu Leu Arg Pro Gln Leu Pro Ser
580 585

<210> 3200

<211> 1685

<212> PRT

<213> Homo sapiens

<400> 3200

Met Ser Leu Pro Phe Tyr Gln Arg Cys His Gln His Tyr Asp Leu Ser

1 5 10 15

Tyr Arg Asn Lys Asp Val Arg Ser Thr Val Ser His Tyr Gln Arg Glu

20 25 30

Lys Lys Arg Ser Ala Val Tyr Thr Gln Gly Ser Thr Ala Tyr Ser Ser

35 40 45

Arg Ser Ser Ala Ala His Arg Arg Glu Ser Glu Ala Phe Arg Arg Ala

50 55 60

Ser Ala Ser Ser Ser Gln Gln Gln Ala Ser Gln His Ala Leu Ser Ser

65 70 75 80

Glu Val Ser Arg Lys Ala Ala Ser Ala Tyr Asp Tyr Gly Ser Ser His

85 90 95

Gly Leu Thr Asp Ser Ser Leu Leu Leu Asp Asp Tyr Ser Ser Lys Leu

100 105 110

Ser Pro Lys Pro Lys Arg Ala Lys His Ser Leu Leu Ser Gly Glu Glu

115 120 125

Lys Glu Asn Leu Pro Ser Asp Tyr Met Val Pro Ile Phe Ser Gly Arg

130 135 140

Gln Lys His Val Ser Gly Ile Thr Asp Thr Glu Glu Glu Arg Ile Lys

145 150 155 160

Glu Ala Ala Ala Tyr Ile Ala Gln Arg Asn Leu Leu Ala Ser Glu Glu

165 170 175

Gly Ile Thr Thr Pro Lys Gln Ser Thr Ala Ser Lys Gln Thr Thr Ala

180 185 190

Ser Lys Gln Ser Thr Ala Ser Lys Gln Ser Thr Ala Ser Lys Gln Ser
195 200 205
Thr Ala Ser Arg Gln Ser Thr Ala Ser Arg Gln Ser Val Val Ser Lys
210 215 220
Gln Ala Thr Ser Ala Leu Gln Gln Glu Glu Thr Ser Glu Lys Lys Ser
225 230 235 240
Arg Lys Val Val Ile Arg Glu Lys Ala Glu Arg Leu Ser Leu Arg Lys
245 250 255
Thr Leu Glu Glu Thr Glu Thr Tyr His Ala Lys Leu Asn Glu Asp His
260 265 270
Leu Leu His Ala Pro Glu Phe Ile Ile Lys Pro Arg Ser His Thr Val
275 280 285
Trp Glu Lys Glu Asn Val Lys Leu His Cys Ser Ile Ala Gly Trp Pro
290 295 300
Glu Pro Arg Val Thr Trp Tyr Lys Asn Gln Val Pro Ile Asn Val His
305 310 315 320
Ala Asn Pro Gly Lys Tyr Ile Ile Glu Ser Arg Tyr Gly Met His Thr
325 330 335
Leu Glu Ile Asn Ala Cys Asp Phe Glu Asp Thr Ala Gln Tyr Arg Ala
340 345 350
Ser Ala Met Asn Val Lys Gly Glu Leu Ser Ala Tyr Ala Ser Val Val
355 360 365
Val Lys Arg Tyr Lys Gly Glu Phe Asp Glu Thr Arg Phe His Ala Gly
370 375 380
Ala Ser Thr Met Pro Leu Ser Phe Gly Val Thr Pro Tyr Gly Tyr Ala
385 390 395 400
Ser Arg Phe Glu Ile His Phe Asp Asp Lys Phe Asp Val Ser Phe Gly
405 410 415
Arg Glu Gly Glu Thr Met Ser Leu Gly Cys Arg Val Val Ile Thr Pro

420 425 430
Glu Ile Lys His Phe Gln Pro Glu Ile Gln Trp Tyr Arg Asn Gly Val
435 440 445
Pro Leu Ser Pro Ser Lys Trp Val Gln Thr Leu Trp Ser Gly Glu Arg
450 455 460
Ala Thr Leu Thr Phe Ser His Leu Asn Lys Glu Asp Glu Gly Leu Tyr
465 470 475 480
Thr Ile Arg Val Arg Met Gly Glu Tyr Tyr Glu Gln Tyr Ser Ala Tyr
485 490 495
Val Phe Val Arg Asp Ala Asp Ala Glu Ile Glu Gly Ala Pro Ala Ala
500 505 510
Pro Leu Asp Val Lys Cys Leu Glu Ala Asn Lys Asp Tyr Ile Ile Ile
515 520 525
Ser Trp Lys Gln Pro Ala Val Asp Gly Gly Ser Pro Ile Leu Gly Tyr
530 535 540
Phe Ile Asp Lys Cys Glu Val Gly Thr Asp Ser Trp Ser Gln Cys Asn
545 550 555 560
Asp Thr Pro Val Lys Phe Ala Arg Phe Pro Val Thr Gly Leu Ile Glu
565 570 575
Gly Arg Ser Tyr Ile Phe Arg Val Arg Ala Val Asn Lys Met Gly Ile
580 585 590
Gly Phe Pro Ser Arg Val Ser Glu Pro Val Ala Ala Leu Asp Pro Ala
595 600 605
Glu Lys Ala Arg Leu Lys Ser Arg Pro Ser Ala Pro Trp Thr Gly Gln
610 615 620
Ile Ile Val Thr Glu Glu Glu Pro Ser Glu Gly Ile Val Pro Gly Pro
625 630 635 640
Pro Thr Asp Leu Ser Val Thr Glu Ala Thr Arg Ser Tyr Val Val Leu
645 650 655

Ser Trp Lys Pro Pro Gly Gln Arg Gly His Glu Gly Ile Met Tyr Phe
660 665 670
Val Glu Lys Cys Glu Ala Gly Thr Glu Asn Trp Gln Arg Val Asn Thr
675 680 685
Glu Leu Pro Val Lys Ser Pro Arg Phe Ala Leu Phe Asp Leu Ala Glu
690 695 700
Gly Lys Ser Tyr Cys Phe Arg Val Arg Cys Ser Asn Ser Ala Gly Val
705 710 715 720
Gly Glu Pro Ser Glu Ala Thr Glu Val Thr Val Val Gly Asp Lys Leu
725 730 735
Asp Ile Pro Lys Ala Pro Gly Lys Ile Ile Pro Ser Arg Asn Thr Asp
740 745 750
Thr Ser Val Val Val Ser Trp Glu Glu Ser Lys Asp Ala Lys Glu Leu
755 760 765
Val Gly Tyr Tyr Ile Glu Ala Ser Val Ala Gly Ser Gly Lys Trp Glu
770 775 780
Pro Cys Asn Asn Asn Pro Val Lys Gly Ser Arg Phe Thr Cys His Gly
785 790 795 800
Leu Val Thr Gly Gln Ser Tyr Ile Phe Arg Val Arg Ala Val Asn Ala
805 810 815
Ala Gly Leu Ser Glu Tyr Ser Gln Asp Ser Glu Ala Ile Glu Val Lys
820 825 830
Ala Ala Ile Gly Gly Gly Val Ser Pro Asp Val Cys Pro Ala Leu Ser
835 840 845
Asp Glu Pro Gly Gly Leu Thr Ala Ser Arg Gly Arg Val His Glu Ala
850 855 860
Ser Pro Pro Thr Phe Gln Lys Asp Ala Leu Leu Gly Ser Lys Pro Asn
865 870 875 880
Lys Pro Ser Leu Pro Ser Ser Ser Gln Asn Leu Gly Gln Thr Glu Val

885 890 895
Ser Lys Val Ser Glu Thr Val Gln Glu Glu Leu Thr Pro Pro Pro Gln
900 905 910
Lys Ala Ala Pro Gln Gly Lys Ser Lys Ser Asp Pro Leu Lys Lys Lys
915 920 925
Thr Asp Arg Ala Pro Pro Ser Pro Pro Cys Asp Ile Thr Cys Leu Glu
930 935 940
Ser Phe Arg Asp Ser Met Val Leu Gly Trp Lys Gln Pro Asp Lys Thr
945 950 955 960
Gly Gly Ala Glu Ile Thr Gly Tyr Tyr Val Asn Tyr Arg Glu Val Ile
965 970 975
Asp Gly Val Pro Gly Lys Trp Arg Glu Ala Asn Val Lys Ala Val Ser
980 985 990
Glu Glu Ala Tyr Lys Ile Ser Asn Ser Lys Glu Asn Met Val Tyr Gln
995 1000 1005
Phe Gln Val Ala Ala Met Asn Met Ala Gly Leu Gly Ala Pro Ser Ala
1010 1015 1020
Val Ser Glu Cys Phe Lys Cys Glu Glu Trp Thr Ile Ala Val Pro Gly
1025 1030 1035 1040
Pro Pro His Ser Leu Lys Cys Ser Glu Val Arg Lys Asp Ser Leu Val
1045 1050 1055
Leu Gln Trp Lys Pro Pro Val His Ser Gly Arg Thr Pro Val Thr Gly
1060 1065 1070
Tyr Phe Val Asp Leu Lys Glu Ala Lys Ala Lys Glu Asp Gln Trp Arg
1075 1080 1085
Gly Leu Asn Glu Ala Ala Ile Lys Asn Val Tyr Leu Lys Val Arg Gly
1090 1095 1100
Leu Lys Glu Gly Val Ser Tyr Val Phe Arg Val Arg Ala Ile Asn Gln
1105 1110 1115 1120

Ala Gly Val Gly Lys Pro Ser Asp Leu Ala Gly Pro Val Val Ala Glu			
1125	1130	1135	
Thr Arg Pro Gly Thr Lys Glu Val Val Val Asn Val Asp Asp Asp Gly			
1140	1145	1150	
Val Ile Ser Leu Asn Phe Glu Cys Asp Lys Met Thr Pro Lys Ser Glu			
1155	1160	1165	
Phe Ser Trp Ser Lys Asp Tyr Val Ser Thr Glu Asp Ser Pro Arg Leu			
1170	1175	1180	
Glu Val Glu Ser Lys Gly Asn Lys Thr Lys Met Thr Phe Lys Asp Leu			
1185	1190	1195	1200
Gly Met Asp Asp Leu Gly Ile Tyr Ser Cys Asp Val Thr Asp Thr Asp			
1205	1210	1215	
Gly Ile Ala Ser Ser Tyr Leu Ile Asp Glu Glu Glu Leu Lys Arg Leu			
1220	1225	1230	
Leu Ala Leu Ser His Glu His Lys Phe Pro Thr Val Pro Val Lys Ser			
1235	1240	1245	
Glu Leu Ala Val Glu Ile Leu Glu Lys Gly Gln Val Arg Phe Trp Met			
1250	1255	1260	
Gln Ala Glu Lys Leu Ser Gly Asn Ala Lys Val Asn Tyr Ile Phe Asn			
1265	1270	1275	1280
Glu Lys Glu Ile Phe Glu Gly Pro Lys Tyr Lys Met His Ile Asp Arg			
1285	1290	1295	
Asn Thr Gly Ile Ile Glu Met Phe Met Glu Lys Leu Gln Asp Glu Asp			
1300	1305	1310	
Glu Gly Thr Tyr Thr Phe Gln Leu Gln Asp Gly Lys Ala Thr Asn His			
1315	1320	1325	
Ser Thr Val Val Leu Val Gly Asp Val Phe Lys Lys Leu Gln Lys Glu			
1330	1335	1340	
Ala Glu Phe Gln Arg Gln Glu Trp Ile Arg Lys Gln Gly Pro His Phe			

1345 1350 1355 1360
Val Glu Tyr Leu Ser Trp Glu Val Thr Gly Glu Cys Asn Val Leu Leu
 1365 1370 1375
Lys Cys Lys Val Ala Asn Ile Lys Lys Glu Thr His Ile Val Trp Tyr
 1380 1385 1390
Lys Asp Glu Arg Glu Ile Ser Val Asp Glu Lys His Asp Phe Lys Asp
 1395 1400 1405
Gly Ile Cys Thr Leu Leu Ile Thr Glu Phe Ser Lys Lys Asp Ala Gly
 1410 1415 1420
Ile Tyr Glu Val Ile Leu Lys Asp Asp Arg Gly Lys Asp Lys Ser Arg
1425 1430 1435 1440
Leu Lys Leu Val Asp Glu Ala Phe Lys Glu Leu Met Met Glu Val Cys
 1445 1450 1455
Lys Lys Ile Ala Leu Ser Ala Thr Asp Leu Lys Ile Gln Ser Thr Ala
 1460 1465 1470
Glu Gly Ile Gln Leu Tyr Ser Phe Val Thr Tyr Tyr Val Glu Asp Leu
 1475 1480 1485
Lys Val Asn Trp Ser His Asn Gly Ser Ala Ile Arg Tyr Ser Asp Arg
 1490 1495 1500
Val Lys Thr Gly Val Thr Gly Glu Gln Ile Trp Leu Gln Ile Asn Glu
1505 1510 1515 1520
Pro Thr Pro Asn Asp Lys Gly Lys Tyr Val Met Glu Leu Phe Asp Gly
 1525 1530 1535
Lys Thr Gly His Gln Lys Thr Val Asp Leu Ser Gly Gln Ala Tyr Asp
 1540 1545 1550
Glu Ala Tyr Ala Glu Phe Gln Arg Leu Lys Gln Ala Ala Ile Ala Glu
 1555 1560 1565
Lys Asn Arg Ala Arg Val Leu Gly Gly Leu Pro Asp Val Val Thr Ile
 1570 1575 1580

Gln Glu Gly Lys Ala Leu Asn Leu Thr Cys Asn Val Trp Gly Asp Pro
 1585 1590 1595 1600
 Pro Pro Glu Val Ser Trp Leu Lys Asn Glu Lys Ala Leu Ala Ser Asp
 1605 1610 1615
 Gly His Cys Asn Leu Lys Phe Glu Ala Gly Arg Thr Ala Tyr Phe Thr
 1620 1625 1630
 Ile Asn Gly Val Ser Thr Ala Asp Ser Gly Lys Tyr Gly Leu Val Val
 1635 1640 1645
 Lys Asn Lys Tyr Gly Ser Glu Thr Ser Asp Phe Thr Val Ser Val Phe
 1650 1655 1660
 Ile Pro Glu Glu Glu Ala Arg Met Ala Ala Leu Glu Ser Leu Lys Gly
 1665 1670 1675 1680
 Gly Lys Lys Ala Lys
 1685

<210> 3201

<211> 1309

<212> PRT

<213> Homo sapiens

<400> 3201

Met Gly Thr His His His Ala Gln Leu Ile Phe Val Phe Leu Val Glu
 1 5 10 15
 Met Arg Phe His Arg Val Asp Gln Ala Gly Leu Glu Leu Leu Thr Ser
 20 25 30
 Gly Asn Ser Pro Ala Ser Ala Ser Arg Ser Ala Glu Ile Thr Val Val
 35 40 45
 Ser Gln His Ala Gln Pro Gly Phe Leu Tyr Gln Trp Leu Glu Ala Asp

50	55	60
Arg His Gly Lys Ser Gln Gly Ala Ala Asn Thr Thr Ser Gly Glu Asn		
65	70	75
Phe Asp Gln Ser Pro Leu Lys Arg Thr Phe Lys Ser Lys Val Leu Ala		
85	90	95
His Tyr Pro Gln Asn Ile Glu Trp Asn Pro Phe Asp Gln Asp Ala Val		
100	105	110
Asn Met Leu Cys Met Pro Lys Gly Leu Ser Phe Arg Thr Gln Thr Asp		
115	120	125
Asn Lys Asp Pro Gln Phe His Ser Phe Ile Ile Thr Arg Glu Asp Gly		
130	135	140
Ser Arg Thr Tyr Gly Phe Val Leu Thr Phe Tyr Glu Glu Val Thr Ser		
145	150	155
Lys Gln Ile Cys Thr Ala Met Gln Thr Leu Tyr Gln Met His Asn Ala		
165	170	175
Glu His Tyr Ser Ser Val Tyr Ala Ser Ser Ser Cys Ser Met Asp Ser		
180	185	190
Leu Ala Ser Ser Leu Asp Glu Gly Asp Thr Thr Ser Leu Leu Lys Leu		
195	200	205
Gln Arg Tyr Asn Ser Tyr Asp Ile Ser Arg Asp Thr Leu Tyr Val Ser		
210	215	220
Lys Ser Ile Cys Leu Ile Thr Pro Leu Pro Phe Met Gln Ala Cys Lys		
225	230	235
Lys Phe Leu Ile Gln Leu Tyr Lys Ala Val Thr Ser Gln Gln Pro Pro		
245	250	255
Pro Leu Pro Leu Glu Ser Tyr Ile His Asn Ile Leu Tyr Glu Val Pro		
260	265	270
Leu Pro Pro Pro Gly Arg Ser Leu Lys Phe Tyr Gly Val Tyr Glu Pro		
275	280	285

Val Ile Cys Gln Arg Pro Gly Pro Ser Glu Leu Pro Leu Ser Asp Tyr
 290 295 300
 Pro Leu Arg Glu Ala Phe Glu Leu Leu Gly Leu Glu Asn Leu Val Gln
 305 310 315 320
 Val Phe Thr Cys Val Leu Leu Glu Met Gln Ile Leu Leu Tyr Ser Gln
 325 330 335
 Asp Tyr Gln Arg Leu Met Thr Val Ala Glu Gly Ile Thr Thr Leu Leu
 340 345 350
 Phe Pro Phe Gln Trp Gln His Val Tyr Val Pro Ile Leu Pro Ala Ser
 355 360 365
 Leu Leu His Phe Leu Asp Ala Pro Val Pro Tyr Leu Met Gly Leu Gln
 370 375 380
 Ser Lys Glu Gly Thr Asp Arg Ser Lys Leu Glu Leu Pro Gln Glu Ala
 385 390 395 400
 Asn Leu Cys Phe Val Asp Ile Asp Asn His Phe Ile Glu Leu Pro Glu
 405 410 415
 Glu Phe Pro Gln Phe Pro Asn Lys Val Asp Phe Ile Gln Glu Leu Ser
 420 425 430
 Glu Val Leu Val Gln Phe Gly Ile Pro Pro Glu Gly Ser Leu His Cys
 435 440 445
 Ser Glu Ser Thr Ser Lys Leu Lys Asn Met Val Leu Lys Asp Leu Val
 450 455 460
 Asn Asp Lys Lys Asn Gly Asn Val Cys Thr Asn Asn Ile Ser Met Tyr
 465 470 475 480
 Glu Leu Leu Lys Gly Asn Glu Thr Ile Ala Arg Leu Gln Ala Leu Ala
 485 490 495
 Lys Arg Thr Gly Val Ala Val Glu Lys Met Asp Leu Ser Ala Ser Leu
 500 505 510
 Gly Glu Lys Asp Lys Asp Leu Lys Leu His Cys Glu Glu Ala Glu Leu

515 520 525
Arg Asp Tyr Gln Leu Asn Val Gln Leu Arg Glu Val Phe Ala Asn Arg
530 535 540
Phe Thr Gln Met Phe Ala Asp Tyr Glu Ala Phe Val Ile Gln Thr Ala
545 550 555 560
Gln Asp Met Glu Ser Trp Leu Thr Asn Arg Glu Gln Met Gln Asn Phe
565 570 575
Asp Lys Ala Ser Phe Leu Ser Asp Gln Pro Glu Pro Tyr Leu Pro Phe
580 585 590
Leu Ser Arg Phe Ile Glu Thr Gln Met Phe Ala Thr Phe Ile Asp Asn
595 600 605
Lys Ile Met Ser Gln Trp Glu Glu Lys Asp Pro Leu Leu Arg Val Phe
610 615 620
Asp Thr Arg Ile Asp Lys Ile Arg Leu Tyr Asn Val Arg Ala Pro Thr
625 630 635 640
Leu Arg Thr Ser Ile Tyr Gln Lys Cys Ser Thr Leu Lys Glu Ala Ala
645 650 655
Gln Ser Ile Glu Gln Arg Leu Met Lys Met Asp His Thr Ala Ile His
660 665 670
Pro His Leu Leu Asp Met Lys Ile Gly Gln Gly Lys Tyr Glu Gln Gly
675 680 685
Phe Phe Pro Lys Leu Gln Ser Asp Val Leu Ala Thr Gly Pro Thr Ser
690 695 700
Asn Asn Arg Trp Val Ser Arg Ser Ala Thr Ala Gln Arg Arg Lys Glu
705 710 715 720
Arg Leu Arg Gln His Ser Glu His Val Gly Leu Asp Asn Asp Leu Arg
725 730 735
Glu Lys Tyr Met Gln Glu Ala Arg Ser Leu Gly Lys Asn Leu Arg Gln
740 745 750

Pro Lys Leu Ser Asp Leu Ser Pro Ala Val Ile Ala Gln Thr Asn Cys
755 760 765
Lys Phe Val Glu Gly Leu Leu Lys Glu Cys Arg Met Lys Thr Lys Arg
770 775 780
Met Leu Val Glu Lys Met Gly His Glu Ala Val Glu Leu Gly His Gly
785 790 795 800
Glu Ala Asn Ile Thr Gly Leu Glu Glu Asn Thr Leu Ile Ala Ser Leu
805 810 815
Cys Asp Leu Leu Glu Arg Ile Trp Ser His Gly Leu Gln Val Lys Gln
820 825 830
Gly Lys Ser Ala Leu Trp Ser His Leu Ile Gln Phe Gln Asp Arg Glu
835 840 845
Glu Lys Gln Glu His Leu Ala Glu Ser Pro Val Ala Leu Gly Pro Glu
850 855 860
Arg Arg Lys Ser Asp Ser Gly Val Met Leu Pro Thr Leu Arg Val Ser
865 870 875 880
Leu Ile Gln Asp Met Arg His Ile Gln Asn Met Ser Glu Ile Lys Thr
885 890 895
Asp Val Gly Arg Ala Arg Ala Trp Ile Arg Leu Ser Leu Glu Lys Lys
900 905 910
Leu Leu Ser Gln His Leu Lys Gln Leu Leu Ser Asn Gln Pro Leu Thr
915 920 925
Lys Lys Leu Tyr Lys Arg Tyr Ala Phe Leu Arg Cys Glu Glu Glu Arg
930 935 940
Glu Gln Phe Leu Tyr His Leu Leu Ser Leu Asn Ala Val Asp Tyr Phe
945 950 955 960
Cys Phe Thr Ser Val Phe Thr Thr Ile Met Ile Pro Tyr Arg Ser Val
965 970 975
Ile Ile Pro Ile Lys Lys Leu Ser Asn Ala Ile Ile Thr Ser Asn Pro

980	985	990	
Trp Ile Cys Val Ser Gly Glu Leu Gly Asp Thr Gly Val Met Gln Ile			
995	1000	1005	
Pro Lys Asn Leu Leu Glu Met Thr Phe Glu Cys Gln Asn Leu Gly Lys			
1010	1015	1020	
Leu Thr Thr Val Gln Ile Gly His Asp Asn Ser Gly Leu Leu Ala Lys			
1025	1030	1035	1040
Trp Leu Val Asp Cys Val Met Val Arg Asn Glu Ile Thr Gly His Thr			
1045	1050	1055	
Tyr Arg Phe Pro Cys Gly Arg Trp Leu Gly Lys Gly Ile Asp Asp Gly			
1060	1065	1070	
Ser Leu Glu Arg Ile Leu Ile Gly Glu Leu Met Thr Ser Ala Ser Asp			
1075	1080	1085	
Glu Asp Leu Val Lys Gln Cys Arg Thr Pro Pro Gln Gln Lys Ser Pro			
1090	1095	1100	
Thr Thr Ala Arg Arg Leu Ser Ile Thr Ser Leu Thr Gly Lys Asn Asn			
1105	1110	1115	1120
Lys Pro Asn Ala Gly Gln Ile Gln Glu Gly Ile Gly Glu Ala Val Asn			
1125	1130	1135	
Asn Ile Val Lys His Phe His Lys Pro Glu Lys Glu Arg Gly Ser Leu			
1140	1145	1150	
Thr Val Leu Leu Cys Gly Glu Asn Gly Leu Val Ala Ala Leu Glu Gln			
1155	1160	1165	
Val Phe His His Gly Phe Lys Ser Ala Arg Ile Phe His Lys Asn Val			
1170	1175	1180	
Phe Ile Trp Asp Phe Ile Glu Lys Val Val Ala Tyr Phe Glu Thr Thr			
1185	1190	1195	1200
Asp Gln Ile Leu Asp Asn Glu Asp Asp Val Leu Ile Gln Lys Ser Ser			
1205	1210	1215	

Cys Lys Thr Phe Cys His Tyr Val Asn Ala Ile Asn Thr Ala Pro Arg
 1220 1225 1230
 Asn Ile Gly Lys Asp Gly Lys Phe Gln Ile Leu Val Cys Leu Gly Thr
 1235 1240 1245
 Arg Asp Arg Leu Leu Pro Gln Trp Ile Pro Leu Leu Ala Glu Cys Pro
 1250 1255 1260
 Ala Ile Thr Arg Met Tyr Glu Glu Ser Ala Leu Leu Arg Asp Arg Met
 1265 1270 1275 1280
 Thr Val Asn Ser Leu Ile Arg Ile Leu Gln Thr Ile Gln Asp Phe Thr
 1285 1290 1295
 Ile Val Leu Glu Gly Ser Leu Ile Lys Gly Val Asp Val
 1300 1305

<210> 3202

<211> 1266

<212> PRT

<213> Homo sapiens

<400> 3202

Met Tyr Glu Leu Val Tyr Trp Ala Ala Glu Asp Glu Asp Gln Gln His
 1 5 10 15
 Lys Val Thr Phe Asp Pro Thr Ser Ser Tyr Thr Leu Glu Asp Leu Lys
 20 25 30
 Pro Asp Thr Leu Tyr Arg Phe Gln Leu Ala Ala Arg Ser Asp Met Gly
 35 40 45
 Val Gly Val Phe Thr Pro Thr Ile Glu Ala Arg Thr Ala Gln Ser Met
 50 55 60
 Pro Ser Gly Pro Pro Arg Lys Val Glu Val Glu Pro Leu Asn Ser Thr

65 70 75 80
Ala Val His Val Tyr Trp Lys Leu Pro Val Pro Ser Lys Gln His Gly
 85 90 95
Gln Ile Arg Gly Tyr Gln Val Thr Tyr Val Arg Leu Glu Asn Gly Glu
 100 105 110
Pro Arg Gly Leu Pro Ile Ile Gln Asp Val Met Leu Ala Glu Ala Gln
 115 120 125
Glu Thr Thr Ile Ser Gly Leu Thr Pro Glu Thr Thr Tyr Ser Val Thr
 130 135 140
Val Ala Ala Tyr Thr Thr Lys Gly Asp Gly Ala Arg Ser Lys Pro Lys
145 150 155 160
Ile Val Thr Thr Thr Gly Ala Val Pro Gly Arg Pro Thr Met Met Ile
 165 170 175
Ser Thr Thr Ala Met Asn Thr Ala Leu Leu Gln Trp His Pro Pro Lys
 180 185 190
Glu Leu Pro Gly Glu Leu Leu Gly Tyr Arg Leu Gln Tyr Cys Arg Ala
 195 200 205
Asp Glu Ala Arg Pro Asn Thr Ile Asp Phe Gly Lys Asp Asp Gln His
 210 215 220
Phe Thr Val Thr Gly Leu His Lys Gly Thr Thr Tyr Ile Phe Arg Leu
225 230 235 240
Ala Ala Lys Asn Arg Ala Gly Leu Gly Glu Glu Phe Glu Lys Glu Ile
 245 250 255
Arg Thr Pro Glu Asp Leu Pro Ser Gly Phe Pro Gln Asn Leu His Val
 260 265 270
Thr Gly Leu Thr Thr Ser Thr Thr Glu Leu Ala Trp Asp Pro Pro Val
 275 280 285
Leu Ala Glu Arg Asn Gly Arg Ile Ile Ser Tyr Thr Val Val Phe Arg
 290 295 300

Asp Ile Asn Ser Gln Gln Glu Leu Gln Asn Ile Thr Thr Asp Thr Arg
 305 310 315 320
 Phe Thr Leu Thr Gly Leu Lys Pro Asp Thr Thr Tyr Asp Ile Lys Val
 325 330 335
 Arg Ala Trp Thr Ser Lys Gly Ser Gly Pro Leu Ser Pro Ser Ile Gln
 340 345 350
 Ser Arg Thr Met Pro Val Glu Gln Val Phe Ala Lys Asn Phe Arg Val
 355 360 365
 Ala Ala Ala Met Lys Thr Ser Val Leu Leu Ser Trp Glu Val Pro Asp
 370 375 380
 Ser Tyr Lys Ser Ala Val Pro Phe Lys Ile Leu Tyr Asn Gly Gln Ser
 385 390 395 400
 Val Glu Val Asp Gly His Ser Met Arg Lys Leu Ile Ala Asp Leu Gln
 405 410 415
 Pro Asn Thr Glu Tyr Ser Phe Val Leu Met Asn Arg Gly Ser Ser Ala
 420 425 430
 Gly Gly Leu Gln His Leu Val Ser Ile Arg Thr Ala Pro Asp Leu Leu
 435 440 445
 Pro His Lys Pro Leu Pro Ala Ser Ala Tyr Ile Glu Asp Gly Arg Phe
 450 455 460
 Asp Leu Ser Met Pro His Val Gln Asp Pro Ser Leu Val Arg Trp Phe
 465 470 475 480
 Tyr Ile Val Val Val Pro Ile Asp Arg Val Gly Gly Ser Met Leu Thr
 485 490 495
 Pro Arg Trp Ser Thr Pro Glu Glu Leu Glu Leu Asp Glu Leu Leu Glu
 500 505 510
 Ala Ile Glu Gln Gly Gly Glu Glu Gln Arg Arg Arg Arg Arg Gln Ala
 515 520 525
 Glu Arg Leu Lys Pro Tyr Val Ala Ala Gln Leu Asp Val Leu Pro Glu

530 535 540
Thr Phe Thr Leu Gly Asp Lys Lys Asn Tyr Arg Gly Phe Tyr Asn Arg
545 550 555 560
Pro Leu Ser Pro Asp Leu Ser Tyr Gln Cys Phe Val Leu Ala Ser Leu
565 570 575
Lys Glu Pro Met Asp Gln Lys Arg Tyr Ala Ser Ser Pro Tyr Ser Asp
580 585 590
Glu Ile Val Val Gln Val Thr Pro Ala Gln Gln Gln Glu Glu Pro Glu
595 600 605
Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
610 615 620
Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
625 630 635 640
Ser Ser Lys Gly Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
645 650 655
His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
660 665 670
Gly Ser Ser Val Pro Ser Cys Pro Asn Thr Ser Ser Met Arg Asp His
675 680 685
Pro Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn Ile Glu Arg Leu Lys
690 695 700
Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr Glu Ser Ile Asp Pro
705 710 715 720
Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu Glu Val Asn Lys Pro
725 730 735
Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp His Ser Arg Val Ile
740 745 750
Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp Tyr Ile Asn Ala Asn
755 760 765

Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr Ile Ala Thr Gln Gly
 770 775 780
 Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg Met Val Trp Glu Gln
 785 790 795 800
 Arg Thr Ala Thr Val Val Met Met Thr Arg Leu Glu Glu Lys Ser Arg
 805 810 815
 Val Lys Cys Asp Gln Tyr Trp Pro Ala Arg Gly Thr Glu Thr Cys Gly
 820 825 830
 Leu Ile Gln Val Thr Leu Leu Asp Thr Val Glu Leu Ala Thr Tyr Thr
 835 840 845
 Val Arg Thr Phe Ala Leu His Lys Ser Gly Ser Ser Glu Lys Arg Glu
 850 855 860
 Leu Arg Gln Phe Gln Phe Met Ala Trp Pro Asp His Gly Val Pro Glu
 865 870 875 880
 Tyr Pro Thr Pro Ile Leu Ala Phe Leu Arg Arg Val Lys Ala Cys Asn
 885 890 895
 Pro Leu Asp Ala Gly Pro Met Val Val His Cys Ser Ala Gly Val Gly
 900 905 910
 Arg Thr Gly Cys Phe Ile Val Ile Asp Ala Met Leu Glu Arg Met Lys
 915 920 925
 His Glu Lys Thr Val Asp Ile Tyr Gly His Val Thr Cys Met Arg Ser
 930 935 940
 Gln Arg Asn Tyr Met Val Gln Thr Glu Asp Gln Tyr Val Phe Ile His
 945 950 955 960
 Glu Ala Leu Leu Glu Ala Ala Thr Cys Gly His Thr Glu Val Pro Ala
 965 970 975
 Arg Asn Leu Tyr Ala His Ile Gln Lys Leu Gly Gln Val Pro Pro Gly
 980 985 990
 Glu Ser Val Thr Ala Met Glu Leu Glu Phe Lys Leu Leu Ala Ser Ser

995	1000	1005	
Lys Ala His Thr Ser Arg Phe Ile Ser Ala Asn Leu Pro Cys Asn Lys			
1010	1015	1020	
Phe Lys Asn Arg Leu Val Asn Ile Met Pro Tyr Glu Leu Thr Arg Val			
1025	1030	1035	1040
Cys Leu Gln Pro Ile Arg Gly Val Glu Gly Ser Asp Tyr Ile Asn Ala			
1045	1050	1055	
Ser Phe Leu Asp Gly Tyr Arg Gln Gln Lys Ala Tyr Ile Ala Thr Gln			
1060	1065	1070	
Gly Pro Leu Ala Glu Ser Thr Glu Asp Phe Trp Arg Met Leu Trp Glu			
1075	1080	1085	
His Asn Ser Thr Ile Ile Val Met Leu Thr Lys Leu Arg Glu Met Gly			
1090	1095	1100	
Arg Glu Lys Cys His Gln Tyr Trp Pro Ala Glu Arg Ser Ala Arg Tyr			
1105	1110	1115	1120
Gln Tyr Phe Val Val Asp Pro Met Ala Glu Tyr Asn Met Pro Gln Tyr			
1125	1130	1135	
Ile Leu Arg Glu Phe Lys Val Thr Asp Ala Arg Asp Gly Gln Ser Arg			
1140	1145	1150	
Thr Ile Arg Gln Ser Gln Phe Thr Asp Trp Pro Glu Gln Gly Val Pro			
1155	1160	1165	
Lys Thr Gly Glu Gly Phe Ile Asp Phe Ile Gly Gln Val His Lys Thr			
1170	1175	1180	
Lys Glu Gln Phe Gly Gln Asp Gly Pro Ile Thr Val His Cys Ser Ala			
1185	1190	1195	1200
Gly Val Gly Arg Thr Gly Val Phe Ile Thr Leu Ser Ile Val Leu Glu			
1205	1210	1215	
Arg Met Arg Tyr Glu Gly Val Val Asp Met Phe Gln Thr Val Lys Thr			
1220	1225	1230	

Leu Arg Thr Gln Arg Pro Ala Met Val Gln Thr Glu Asp Gln Tyr Gln

1235

1240

1245

Leu Cys Tyr Arg Ala Ala Leu Glu Tyr Leu Gly Ser Phe Asp His Tyr

1250

1255

1260

Ala Thr

1265

<210> 3203

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3203

Met Cys Ser Arg Ser Ser His Gly Gly Ala Gln Arg Ser Gly Leu Arg

1

5

10

15

Gly Asp Ala Cys Thr Val Gln Glu Arg Gly Ala Pro Cys Arg Ala Ser

20

25

30

Ala Val Gly Gly Ala Gln Ala Pro Arg Val Gly Ala Gly Val Val Ser

35

40

45

Thr Val His Ile Cys Thr Tyr Val Arg Thr Arg Leu Trp Gly Thr Glu

50

55

60

Gly Pro Phe Ala Leu Pro Gly Asp Trp Ser Arg Val Ala Gly Pro Thr

65

70

75

80

Cys Thr Ala Cys Pro Gln Lys Gly Gln Gly Lys Ala Ser Ser Ile Pro

85

90

95

Leu Gly Pro Gln Pro Pro Thr Cys Leu Gly Lys His Gly Ser Trp Arg

100

105

110

Pro Arg Glu Ala Thr Thr Leu Leu Ser Arg Gln Ala Pro Asn

115

120

125

<210> 3204

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3204

Met Leu Arg Phe Ser His Cys Arg Leu Cys Thr Ile Ser Ile Cys Pro

1 5 10 15

Val Thr Cys Asn Ala Gln Trp Ile Thr Cys Leu Arg Trp Cys Leu Pro

20 25 30

Ser Cys Ser Thr Ile Lys Leu Phe Phe Ser Phe Leu Leu Leu Ile Arg

35 40 45

Ile Leu Trp Gly Gly Thr Leu Lys Val Tyr Lys Asn Leu Ile Val His

50 55 60

Pro Thr Phe Ser Ser Phe Thr Tyr Leu Phe Ile Ser Val Trp Thr His

65 70 75 80

Asp Phe Gln Cys Tyr Ser Met Gly Tyr Asn Pro Leu Leu Ser Leu Phe

85 90 95

Ile Leu Met Leu Arg Ser Ser Pro Ile Trp Pro Met Gly Pro Pro Leu

100 105 110

Ser Ser Phe Thr His Ser Lys Lys Glu Lys Lys Lys Phe Pro Met Ile

115 120 125

Thr

<210> 3205

<211> 1281

<212> PRT

<213> Homo sapiens

<400> 3205

Met Ile Ser Thr Leu Ala Thr Phe Pro Pro Phe Leu His Lys Asp Ile

1 5 10 15

Ile Glu Tyr Leu Ser Thr Ser Phe Leu Pro Met Ala Ile Leu Gly Ser

20 25 30

Ser Arg Arg Glu Gly Val Pro Ala His Val Asn Leu Ser Ala Ser Ser

35 40 45

Met Leu Met Ile Ala Met Gln Tyr Thr Ser Asn Pro Val Tyr His Cys

50 55 60

Gln Leu Leu Glu Cys Leu Met Lys Tyr Lys Gln Glu Val Trp Lys Asp

65 70 75 80

Leu Leu Tyr Val Ile Ala Tyr Gly Pro Ser Gln Val Lys Pro Pro Ala

85 90 95

Val Gln Met Leu Phe His Tyr Trp Pro Asn Leu Lys Pro Pro Gly Ala

100 105 110

Ile Ser Glu Tyr Arg Gly Leu Gln Tyr Thr Ala Trp Asn Pro Ile His

115 120 125

Cys Gln His Ile Glu Cys His Asn Ala Ile Asn Lys Pro Ala Val Lys

130 135 140

Met Cys Ile Asp Pro Ser Leu Ser Val Ala Leu Gly Asp Lys Pro Pro

145 150 155 160

Pro Leu Tyr Leu Cys Glu Glu Cys Ser Glu Arg Ile Ala Gly Asp His

165 170 175

Ser Glu Trp Leu Ile Asp Val Leu Leu Pro Gln Ala Glu Ile Ser Ala

180 185 190

Ile Cys Gln Lys Lys Asn Cys Ser Ser His Val Arg Arg Ala Val Val			
195	200	205	
Thr Cys Phe Ser Ala Gly Cys Cys Gly Arg His Gly Asn Arg Pro Val			
210	215	220	
Arg Tyr Cys Lys Arg Cys His Ser Asn His His Ser Asn Glu Val Gly			
225	230	235	240
Ala Ala Ala Glu Thr His Leu Tyr Gln Thr Ser Pro Pro Pro Ile Asn			
245	250	255	
Thr Arg Glu Cys Gly Ala Glu Glu Leu Val Cys Ala Val Glu Ala Val			
260	265	270	
Ile Ser Leu Leu Lys Glu Ala Glu Phe His Ala Glu Gln Arg Glu His			
275	280	285	
Glu Leu Asn Arg Arg Arg Gln Leu Gly Leu Ser Ser Ser His His Ser			
290	295	300	
Leu Asp Asn Ala Asp Phe Asp Asn Lys Asp Asp Asp Arg His Asp Gln			
305	310	315	320
Arg Leu Leu Ser Gln Phe Gly Ile Trp Phe Leu Val Ser Leu Cys Thr			
325	330	335	
Pro Ser Glu Asn Thr Pro Thr Glu Ser Leu Ala Arg Leu Val Ala Met			
340	345	350	
Val Phe Gln Trp Phe His Ser Thr Ala Tyr Met Met Asp Asp Glu Val			
355	360	365	
Gly Ser Leu Val Glu Lys Leu Lys Pro Gln Phe Val Thr Lys Trp Leu			
370	375	380	
Lys Thr Val Cys Asp Val Arg Phe Asp Val Met Val Met Cys Leu Leu			
385	390	395	400
Pro Lys Pro Met Glu Phe Ala Arg Val Gly Gly Tyr Trp Asp Lys Ser			
405	410	415	
Cys Ser Thr Val Thr Gln Leu Lys Glu Gly Leu Asn Arg Ile Leu Cys			

420	425	430
Leu Ile Pro Tyr Asn Val Ile Asn Gln Ser Val Trp Glu Cys Ile Met		
435	440	445
Pro Glu Trp Leu Glu Ala Ile Arg Thr Glu Val Pro Asp Asn Gln Leu		
450	455	460
Lys Glu Phe Arg Glu Val Leu Ser Lys Met Phe Asp Ile Glu Leu Cys		
465	470	475
Pro Leu Pro Phe Ser Met Glu Glu Met Phe Gly Phe Ile Ser Cys Arg		
485	490	495
Phe Thr Gly Tyr Pro Ser Ser Val Gln Glu Gln Ala Leu Leu Trp Leu		
500	505	510
His Val Leu Ser Glu Leu Asp Ile Met Val Pro Leu Gln Leu Leu Ile		
515	520	525
Ser Met Phe Ser Asp Gly Val Asn Ser Val Lys Glu Leu Ala Asn Gln		
530	535	540
Arg Lys Ser Arg Val Ser Glu Leu Ala Gly Asn Leu Ala Ser Arg Arg		
545	550	555
Val Ser Val Ala Ser Asp Pro Gly Arg Arg Val Gln His Asn Met Leu		
565	570	575
Ser Pro Phe His Ser Pro Phe Gln Ser Pro Phe Arg Ser Pro Leu Arg		
580	585	590
Ser Pro Phe Arg Ser Pro Phe Lys Asn Phe Gly His Pro Gly Gly Arg		
595	600	605
Thr Ile Asp Phe Asp Cys Glu Asp Asp Glu Met Asn Leu Asn Cys Phe		
610	615	620
Ile Leu Met Phe Asp Leu Leu Leu Lys Gln Met Glu Leu Gln Asp Asp		
625	630	635
Gly Ile Thr Met Gly Leu Glu His Ser Leu Ser Lys Asp Ile Ile Ser		
645	650	655

Ile Ile Asn Asn Val Phe Gln Ala Pro Trp Gly Gly Ser His Thr Cys
660 665 670
Gln Lys Asp Glu Lys Ala Ile Glu Cys Asn Leu Cys Gln Ser Ser Ile
675 680 685
Leu Cys Tyr Gln Leu Ala Cys Glu Leu Leu Glu Arg Leu Ala Pro Lys
690 695 700
Glu Glu Ser Arg Leu Val Glu Pro Thr Asp Ser Leu Glu Asp Ser Leu
705 710 715 720
Leu Ser Ser Arg Pro Glu Phe Ile Ile Gly Pro Glu Gly Glu Glu Glu
725 730 735
Glu Asn Pro Ala Ser Lys His Gly Glu Asn Pro Gly Asn Cys Thr Glu
740 745 750
Pro Val Glu His Ala Ala Val Lys Asn Asp Thr Glu Arg Lys Phe Cys
755 760 765
Tyr Gln Gln Leu Pro Val Thr Leu Arg Leu Ile Tyr Thr Ile Phe Gln
770 775 780
Glu Met Ala Lys Phe Glu Glu Pro Asp Ile Leu Phe Asn Met Leu Asn
785 790 795 800
Cys Leu Lys Ile Leu Cys Leu His Gly Glu Cys Leu Tyr Ile Ala Arg
805 810 815
Lys Asp His Pro Gln Phe Leu Ala Tyr Ile Gln Asp His Met Leu Ile
820 825 830
Ala Ser Leu Trp Arg Val Val Lys Ser Glu Phe Ser Gln Leu Ser Ser
835 840 845
Leu Ala Val Pro Leu Leu Leu His Ala Leu Ser Leu Pro His Gly Ala
850 855 860
Asp Ile Phe Trp Thr Ile Ile Asn Gly Asn Phe Asn Ser Lys Asp Trp
865 870 875 880
Lys Met Arg Phe Glu Ala Val Glu Lys Val Ala Val Ile Cys Arg Phe

885	890	895
Leu Asp Ile His Ser Val Thr Lys Asn His Leu Leu Lys Tyr Ser Leu		
900	905	910
Ala His Ala Phe Cys Cys Phe Leu Thr Ala Val Glu Asp Val Asn Pro		
915	920	925
Ala Val Ala Thr Arg Ala Gly Leu Leu Leu Asp Thr Ile Lys Arg Pro		
930	935	940
Ala Leu Gln Gly Leu Cys Leu Cys Leu Asp Phe Gln Phe Asp Thr Val		
945	950	955
960		
Val Lys Asp Arg Pro Thr Ile Leu Ser Lys Leu Leu Leu Leu His Phe		
965	970	975
Leu Lys Gln Asp Ile Pro Ala Leu Ser Trp Glu Phe Phe Val Asn Arg		
980	985	990
Phe Glu Thr Leu Ser Leu Glu Ala Gln Leu His Leu Asp Cys Asn Lys		
995	1000	1005
Glu Phe Pro Phe Pro Thr Thr Ile Thr Ala Val Arg Thr Asn Val Ala		
1010	1015	1020
Asn Leu Ser Asp Ala Ala Leu Trp Lys Ile Lys Arg Ala Arg Phe Ala		
1025	1030	1035
1040		
Arg Asn Arg Gln Lys Ser Val Arg Ser Leu Arg Asp Ser Val Lys Gly		
1045	1050	1055
Pro Val Glu Ser Lys Arg Ala Leu Ser Leu Pro Glu Thr Leu Thr Ser		
1060	1065	1070
Lys Ile Arg Gln Gln Ser Pro Glu Asn Asp Asn Thr Ile Lys Asp Leu		
1075	1080	1085
Leu Pro Glu Asp Ala Gly Ile Asp His Gln Thr Val His Gln Leu Ile		
1090	1095	1100
Thr Val Pro Met Lys Phe Met Ala Lys Asp Glu Ser Ser Ala Glu Ser		
1105	1110	1115
		1120

Asp Ile Ser Ser Ala Lys Ala Phe Asn Thr Val Lys Arg His Leu Tyr
1125 1130 1135
Val Leu Leu Gly Tyr Asp Gln Gln Glu Gly Cys Phe Met Ile Ala Pro
1140 1145 1150
Gln Lys Met Arg Leu Ser Thr Cys Phe Asn Ala Phe Ile Ala Gly Ile
1155 1160 1165
Ala Gln Val Met Asp Tyr Asn Ile Asn Leu Gly Lys His Leu Leu Pro
1170 1175 1180
Leu Val Val Gln Val Leu Lys Tyr Cys Ser Cys Pro Gln Leu Arg His
1185 1190 1195 1200
Tyr Phe Gln Gln Pro Pro Arg Cys Ser Leu Trp Ser Leu Lys Pro His
1205 1210 1215
Ile Arg Gln Met Trp Leu Lys Ala Leu Leu Val Ile Leu Tyr Lys Tyr
1220 1225 1230
Pro Tyr Arg Asp Cys Asp Ile Ser Lys Ile Leu Leu His Leu Ile His
1235 1240 1245
Ile Thr Val Asn Thr Leu Asn Ala Gln Tyr His Ser Cys Lys Pro His
1250 1255 1260
Ala Thr Ala Gly Pro Leu Tyr Ser Asp Asn Ser Asn Ile Ser Arg Tyr
1265 1270 1275 1280
Ser

<210> 3206

<211> 534

<212> PRT

<213> Homo sapiens

<400> 3206

Met	Ile	Ser	Cys	Ala	Glu	Gln	Arg	Ser	Arg	Gln	Gly	Glu	Ala	Gly	Arg
1				5						10				15	
Gly	Pro	Ala	Pro	Val	Ala	Pro	Ala	Phe	Leu	Pro	Leu	Trp	Leu	Pro	Arg
				20				25						30	
Gly	Cys	Ser	Gly	Ile	Leu	Ser	Val	Pro	Ala	Val	Ala	Met	His	Ser	Ala
			35					40						45	
Gly	Thr	Pro	Arg	Ala	Glu	Ser	Pro	Met	Ser	Arg	Gln	Glu	Lys	Asp	Ala
	50						55					60			
Glu	Leu	Asp	Arg	Arg	Ile	Val	Ala	Leu	Arg	Lys	Lys	Asn	Gln	Ala	Leu
	65					70					75				80
Leu	Arg	Arg	Tyr	Gln	Glu	Ile	Gln	Glu	Asp	Arg	Arg	Gln	Ala	Glu	Gln
				85						90					95
Gly	Gly	Met	Ala	Val	Thr	Thr	Pro	Ala	Leu	Leu	Gln	Pro	Asp	Gly	Leu
			100						105					110	
Thr	Val	Thr	Ile	Ser	Gln	Val	Pro	Gly	Glu	Lys	Arg	Val	Val	Ser	Arg
		115						120						125	
Asn	Trp	Ala	Arg	Gly	Thr	Cys	Gly	Pro	Arg	Val	Thr	Asn	Glu	Met	Leu
		130					135							140	
Glu	Asp	Glu	Asp	Ala	Glu	Asp	His	Gly	Gly	Thr	Phe	Cys	Leu	Gly	Glu
	145					150					155				160
Leu	Val	Glu	Leu	Ala	Val	Thr	Met	Glu	Asn	Lys	Ala	Glu	Gly	Lys	Arg
				165						170					175
Ile	Val	Ser	Glu	Lys	Pro	Thr	Arg	Ala	Arg	Asn	Gln	Gly	Ile	Glu	Gly
			180						185					190	
Ser	Pro	Gly	Gly	Arg	Val	Thr	Arg	Ser	Pro	Pro	Thr	Gln	Val	Ala	Ile
		195							200					205	
Ser	Ser	Asp	Ser	Ala	Arg	Lys	Gly	Ser	Trp	Glu	Pro	Trp	Ser	Arg	Pro
	210						215							220	

Val Gly Glu Pro Pro Glu Ala Gly Trp Asp Tyr Ala Gln Trp Lys Gln
225 230 235 240
Glu Arg Glu Gln Ile Asp Leu Ala Arg Leu Ala Arg His Arg Asp Ala
245 250 255
Gln Gly Asp Trp Arg Arg Pro Trp Asp Leu Asp Lys Ala Lys Ser Thr
260 265 270
Leu Gln Asp Cys Ser Gln Leu Arg Gly Glu Gly Pro Ala Arg Ala Gly
275 280 285
Ser Arg Arg Gly Pro Arg Ser His Gln Lys Leu Gln Pro Pro Pro Leu
290 295 300
Leu Pro Asp Gly Lys Gly Arg Gly Gly Gln Ala Ser Arg Pro Ser Val
305 310 315 320
Ala Pro Ala Thr Gly Ser Lys Ala Arg Gly Lys Glu Arg Leu Thr Gly
325 330 335
Arg Ala Arg Arg Trp Asp Met Lys Glu Asp Lys Glu Glu Leu Glu Gly
340 345 350
Gln Glu Gly Ser Gln Ser Thr Arg Glu Thr Pro Ser Glu Glu Glu Gln
355 360 365
Ala Gln Lys Gln Ser Gly Met Glu Gln Gly Arg Leu Gly Ser Ala Pro
370 375 380
Ala Ala Ser Pro Ala Leu Ala Ser Pro Glu Gly Pro Lys Gly Glu Ser
385 390 395 400
Val Ala Ser Thr Ala Ser Ser Val Pro Cys Ser Pro Gln Glu Pro Asp
405 410 415
Leu Ala Pro Leu Asp Leu Ser Leu Gly Gly Ala Gly Ile Pro Gly Pro
420 425 430
Arg Glu Ser Gly Cys Val Leu Gly Leu Arg Pro Gly Ala Gln Glu Ser
435 440 445
Pro Val Ser Trp Pro Glu Gly Ser Lys Gln Gln Pro Leu Gly Trp Ser

450 455 460
 Asn His Gln Ala Glu Leu Glu Val Gln Thr Cys Pro Glu Pro Gln Arg
 465 470 475 480
 Gly Ala Gly Leu Pro Glu Pro Gly Glu Asp Arg Ser Gly Lys Ser Gly
 485 490 495
 Ala Gln Gln Gly Leu Ala Pro Arg Ser Arg Pro Thr Arg Gly Gly Ser
 500 505 510
 Gln Arg Ser Arg Gly Thr Ala Gly Val Arg Arg Arg Thr Gly Arg Pro
 515 520 525
 Gly Pro Ala Gly Arg Cys
 530

<210> 3207

<211> 1375

<212> PRT

<213> Homo sapiens

<400> 3207

Met Lys Cys Leu Cys Leu Gln Ala Leu Ala Ile Val Tyr Gly Arg Cys
 1 5 10 15
 His Glu Glu Ile Gly Pro Phe Thr Asp Thr Arg Tyr Ile Ile Gly Met
 20 25 30
 Leu Glu Arg Cys Thr Asp Lys Leu Glu Arg Asp Arg Leu Ile Leu Phe
 35 40 45
 Leu Asn Lys Leu Ile Leu Asn Lys Lys Asn Val Lys Asp Leu Met Asp
 50 55 60
 Ser Asn Gly Ile Arg Ile Leu Val Asp Leu Leu Thr Leu Ala His Leu
 65 70 75 80

His Val Ser Arg Ala Thr Val Pro Leu Gln Ser Asn Val Ile Glu Ala
 85 90 95
 Ala Pro Asp Met Lys Arg Glu Ser Glu Lys Glu Trp Tyr Phe Gly Asn
 100 105 110
 Ala Asp Lys Glu Arg Ser Gly Pro Tyr Gly Phe His Glu Met Gln Glu
 115 120 125
 Leu Trp Thr Lys Gly Met Leu Asn Ala Lys Thr Arg Cys Trp Ala Gln
 130 135 140
 Gly Met Asp Gly Trp Arg Pro Leu Gln Ser Ile Pro Gln Leu Lys Trp
 145 150 155 160
 Cys Leu Leu Ala Ser Gly Gln Ala Val Leu Asn Glu Thr Asp Leu Ala
 165 170 175
 Thr Leu Ile Leu Asn Met Leu Ile Thr Met Cys Gly Tyr Phe Pro Ser
 180 185 190
 Arg Asp Gln Asp Asn Ala Ile Ile Arg Pro Leu Pro Lys Val Lys Arg
 195 200 205
 Leu Leu Ser Asp Ser Thr Cys Leu Pro His Ile Ile Gln Leu Leu Leu
 210 215 220
 Thr Phe Asp Pro Thr Leu Val Glu Lys Val Ala Ile Leu Leu Tyr His
 225 230 235 240
 Ile Met Gln Asp Asn Pro Gln Leu Pro Arg Leu Tyr Leu Ser Gly Val
 245 250 255
 Phe Phe Phe Ile Met Met Tyr Thr Gly Ser Asn Val Leu Pro Val Ala
 260 265 270
 Arg Phe Leu Lys Tyr Thr His Thr Lys Gln Ala Phe Lys Ser Glu Glu
 275 280 285
 Thr Lys Gly Gln Asp Ile Phe Gln Arg Ser Ile Leu Gly His Ile Leu
 290 295 300
 Pro Glu Ala Met Val Cys Tyr Leu Glu Asn Tyr Glu Pro Glu Lys Phe

305 310 315 320
Ser Glu Ile Phe Leu Gly Glu Phe Asp Thr Pro Glu Ala Ile Trp Ser
 325 330 335
Ser Glu Met Arg Arg Leu Met Ile Glu Lys Ile Ala Ala His Leu Ala
 340 345 350
Asp Phe Thr Pro Arg Leu Gln Ser Asn Thr Arg Ala Leu Tyr Gln Tyr
 355 360 365
Cys Pro Ile Pro Ile Ile Asn Tyr Pro Gln Leu Glu Asn Glu Leu Phe
 370 375 380
Cys Asn Ile Tyr Tyr Leu Lys Gln Leu Cys Asp Thr Leu Arg Phe Pro
385 390 395 400
Asn Trp Pro Ile Lys Asp Pro Val Lys Leu Leu Lys Asp Thr Leu Asp
 405 410 415
Ala Trp Lys Lys Glu Val Glu Lys Lys Pro Pro Met Met Ser Ile Asp
 420 425 430
Asp Ala Tyr Glu Val Leu Asn Leu Pro Gln Gly Gln Gly Pro His Asp
 435 440 445
Glu Ser Lys Ile Arg Lys Ala Tyr Phe Arg Leu Ala Gln Lys Tyr His
 450 455 460
Pro Asp Lys Asn Pro Glu Gly Arg Asp Met Phe Glu Lys Val Asn Lys
465 470 475 480
Ala Tyr Glu Phe Leu Cys Thr Lys Ser Ala Lys Ile Val Asp Gly Pro
 485 490 495
Asp Pro Glu Asn Ile Ile Leu Ile Leu Lys Thr Gln Ser Ile Leu Phe
 500 505 510
Asn Arg His Lys Glu Asp Leu Gln Pro Tyr Lys Tyr Ala Gly Tyr Pro
 515 520 525
Met Leu Ile Arg Thr Ile Thr Met Glu Thr Ser Asp Asp Leu Leu Phe
 530 535 540

Ser Lys Glu Ser Pro Leu Leu Pro Ala Ala Thr Glu Leu Ala Phe His
545 550 555 560
Thr Val Asn Cys Ser Ala Leu Asn Ala Glu Glu Leu Arg Arg Glu Asn
565 570 575
Gly Leu Glu Val Leu Gln Glu Ala Phe Ser Arg Cys Val Ala Val Leu
580 585 590
Thr Arg Ser Ser Lys Pro Ser Asp Met Ser Val Gln Val Cys Gly Tyr
595 600 605
Ile Ser Lys Cys Tyr Ser Val Ala Ala Gln Phe Glu Glu Cys Arg Glu
610 615 620
Lys Ile Thr Glu Met Pro Ser Ile Ile Lys Asp Leu Cys Arg Val Leu
625 630 635 640
Tyr Phe Gly Lys Ser Ile Pro Arg Val Ala Ala Leu Gly Val Glu Cys
645 650 655
Val Ser Ser Phe Ala Val Asp Phe Trp Leu Gln Thr His Leu Phe Gln
660 665 670
Ala Gly Ile Leu Trp Tyr Leu Leu Gly Phe Leu Phe Asn Tyr Asp Tyr
675 680 685
Thr Leu Glu Glu Ser Gly Ile Gln Lys Ser Glu Glu Thr Asn Gln Gln
690 695 700
Glu Val Ala Asn Ser Leu Ala Lys Leu Ser Val His Ala Leu Ser Arg
705 710 715 720
Leu Gly Gly Tyr Leu Ala Glu Glu Gln Ala Thr Pro Glu Asn Pro Thr
725 730 735
Ile Arg Lys Ser Leu Ala Gly Met Leu Thr Pro Tyr Val Ala Arg Lys
740 745 750
Leu Ala Val Ala Ser Val Thr Glu Ile Leu Lys Met Leu Asn Ser Asn
755 760 765
Thr Glu Ser Pro Tyr Leu Ile Trp Asn Asn Ser Thr Arg Ala Glu Leu

770	775	780
Leu Glu Phe Leu Glu Ser Gln Gln Glu Asn Met Ile Lys Lys Gly Asp		
785	790	795
Cys Asp Lys Thr Tyr Gly Ser Glu Phe Val Tyr Ser Asp His Ala Lys		800
	805	810
Glu Leu Ile Val Gly Glu Ile Phe Val Arg Val Tyr Asn Glu Val Pro		815
	820	825
Thr Phe Gln Leu Glu Val Pro Lys Ala Phe Ala Ala Ser Leu Leu Asp		830
	835	840
Tyr Ile Gly Ser Gln Ala Gln Tyr Leu His Thr Phe Met Ala Ile Thr		845
	850	855
His Ala Ala Lys Val Glu Ser Glu Gln His Gly Asp Arg Leu Pro Arg		860
865	870	875
Val Glu Met Ala Leu Glu Ala Leu Arg Asn Val Ile Lys Tyr Asn Pro		880
	885	890
Gly Ser Glu Ser Glu Cys Ile Gly His Phe Lys Leu Ile Phe Ser Leu		895
	900	905
Leu Arg Val His Gly Ala Gly Gln Val Gln Gln Leu Ala Leu Glu Val		910
	915	920
Val Asn Ile Val Thr Ser Asn Gln Asp Cys Val Asn Asn Ile Ala Glu		925
	930	935
Ser Met Val Leu Ser Ser Leu Leu Ala Leu Leu His Ser Leu Pro Ser		940
945	950	955
Ser Arg Gln Leu Val Leu Glu Thr Leu Tyr Ala Leu Thr Ser Ser Thr		960
	965	970
Lys Ile Ile Lys Glu Ala Met Ala Lys Gly Ala Leu Ile Tyr Leu Leu		975
	980	985
Asp Met Phe Cys Asn Ser Thr His Pro Gln Val Arg Ala Gln Thr Ala		990
	995	1000
		1005

Glu Leu Phe Ala Lys Met Thr Ala Asp Lys Leu Ile Gly Pro Lys Val
1010 1015 1020
Arg Ile Thr Leu Met Lys Phe Leu Pro Ser Val Phe Met Asp Ala Met
1025 1030 1035 1040
Arg Asp Asn Pro Glu Ala Ala Val His Ile Phe Glu Gly Thr His Glu
1045 1050 1055
Asn Pro Glu Leu Ile Trp Asn Asp Asn Ser Arg Asp Lys Val Ser Thr
1060 1065 1070
Thr Val Arg Glu Met Met Leu Glu His Phe Lys Asn Gln Gln Asp Asn
1075 1080 1085
Pro Glu Ala Asn Trp Lys Leu Pro Glu Asp Phe Ala Val Val Phe Gly
1090 1095 1100
Glu Ala Glu Gly Glu Leu Ala Val Gly Gly Val Phe Leu Arg Ile Phe
1105 1110 1115 1120
Ile Ala Gln Pro Ala Trp Val Leu Arg Lys Pro Arg Glu Phe Leu Ile
1125 1130 1135
Ala Leu Leu Glu Lys Leu Thr Glu Leu Leu Glu Lys Asn Asn Pro His
1140 1145 1150
Gly Glu Thr Leu Glu Thr Leu Thr Met Ala Thr Val Cys Leu Phe Ser
1155 1160 1165
Ala Gln Pro Gln Leu Ala Asp Gln Val Pro Pro Leu Gly His Leu Pro
1170 1175 1180
Lys Val Ile Gln Ala Met Asn His Arg Asn Asn Ala Ile Pro Lys Ser
1185 1190 1195 1200
Ala Ile Arg Val Ile His Ala Leu Ser Glu Asn Glu Leu Cys Val Arg
1205 1210 1215
Ala Met Ala Ser Leu Glu Thr Ile Gly Pro Leu Met Asn Gly Met Lys
1220 1225 1230
Lys Arg Ala Asp Thr Val Gly Leu Ala Cys Glu Ala Ile Asn Arg Met

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Tyr Leu Val Phe Leu Gly Ser Thr Leu Arg His Cys Thr Ser Thr Arg
 35 40 45
 Lys Val Ser Ser Asp Thr Leu Glu Thr Ile Ala Pro Gly His Asp Cys
 50 55 60
 Cys Glu Thr Val Lys Val Gln Leu Cys Ala Ser Lys Glu Gly Leu Pro
 65 70 75 80
 Val Phe Val Val Ala Glu Glu Asp Phe His Phe Val Gln Asp Glu Ala
 85 90 95
 Tyr Asp Ala Ala Gln Phe Leu Ala Thr Ser Ala Gly Asn Gln Gln Ala
 100 105 110
 Leu Asn Phe Thr Arg Phe Leu Asp Gln Ser Gly Pro Pro Ser Gly Asp
 115 120 125
 Val Asn Ser Leu Asp Lys Lys Leu Val Leu Ala Phe Arg His Leu Lys
 130 135 140
 Leu Pro Thr Glu Trp Asn Val Leu Gly Thr Asp Gln Ser Leu His Asp
 145 150 155 160
 Ala Gly Pro Arg Glu Thr Leu Met His Phe Ala Val Arg Leu Gly Leu
 165 170 175
 Leu Arg Leu Thr Trp Phe Leu Ser Gln Lys Pro Gly Gly Arg Gly Ala
 180 185 190
 Leu Ser Ile His Asn Gln Glu Gly Ala Thr Pro Val Ser Leu Ala Leu
 195 200 205
 Glu Arg Gly Tyr His Lys Leu His Gln Leu Leu Thr Glu Glu Asn Ala
 210 215 220
 Gly Glu Pro Asp Ser Trp Ser Ser Leu Ser Tyr Glu Ile Pro Tyr Gly
 225 230 235 240
 Asp Cys Ser Val Arg His His Arg Glu Leu Asp Ile Tyr Thr Leu Thr
 245 250 255
 Ser Glu Ser Asp Ser His His Glu His Pro Phe Pro Gly Asp Gly Cys

260	265	270
Thr Gly Pro Ile Phe Lys Leu Met Asn Ile Gln Gln Gln Leu Met Lys		
275	280	285
Thr Asn Leu Lys Gln Met Asp Ser Leu Met Pro Leu Met Met Thr Ala		
290	295	300
Gln Asp Pro Ser Ser Ala Pro Glu Thr Asp Gly Gln Phe Leu Pro Cys		
305	310	315
Ala Pro Glu Pro Thr Asp Pro Gln Arg Leu Ser Ser Ser Glu Glu Thr		
325	330	335
Glu Ser Thr Gln Cys Cys Pro Gly Ser Pro Val Ala Gln Thr Glu Ser		
340	345	350
Pro Cys Asp Leu Ser Ser Ile Val Glu Glu Glu Asn Thr Asp Arg Ser		
355	360	365
Cys Arg Lys Lys Asn Lys Gly Val Glu Arg Lys Gly Glu Glu Val Glu		
370	375	380
Pro Ala Pro Ile Val Asp Ser Gly Thr Val Ser Asp Gln Asp Ser Cys		
385	390	395
Leu Gln Ser Leu Pro Asp Cys Gly Val Lys Gly Thr Glu Gly Leu Ser		
405	410	415
Ser Cys Gly Asn Arg Asn Glu Glu Thr Gly Thr Lys Ser Ser Gly Met		
420	425	430
Pro Thr Asp Gln Glu Ser Leu Ser Ser Gly Asp Ala Val Leu Gln Arg		
435	440	445
Asp Leu Val Thr Glu Pro Gly Thr Ala Gln Tyr Ser Ser Gly Gly Glu		
450	455	460
Leu Gly Gly Ile Ser Thr Thr Asn Val Ser Thr Pro Asp Thr Ala Gly		
465	470	475
Glu Met Glu His Gly Leu Met Asn Pro Asp Ala Thr Val Arg Lys Asn		
485	490	495

Val Leu Gln Gly Gly Glu Ser Thr Lys Glu Arg Phe Glu Asn Ser Asn
500 505 510
Ile Gly Thr Ala Gly Ala Ser Asp Val His Val Thr Ser Lys Pro Val
515 520 525
Asp Lys Ile Ser Val Pro Asn Cys Ala Pro Ala Ala Ser Ser Leu Asp
530 535 540
Gly Asn Lys Pro Ala Glu Ser Ser Leu Ala Phe Ser Asn Glu Glu Thr
545 550 555 560
Ser Thr Glu Lys Thr Ala Glu Thr Glu Thr Ser Arg Ser Cys Glu Glu
565 570 575
Ser Ala Asp Ala Pro Val Asp Gln Asn Ser Val Val Ile Pro Ala Ala
580 585 590
Ala Lys Asp Lys Ile Ser Asp Gly Leu Glu Pro Tyr Thr Leu Leu Ala
595 600 605
Ala Gly Ile Gly Glu Ala Met Ser Pro Ser Asp Leu Ala Leu Leu Val
610 615 620
Leu Glu Glu Asp Val Met Pro His Gln Asn Ser Glu Thr Asn Ser Ser
625 630 635 640
His Ala Gln Ser Gln Lys Gly Lys Ser Ser Pro Ile Cys Ser Thr Thr
645 650 655
Gly Asp Asp Lys Leu Cys Ala Asp Ser Ala Cys Gln Gln Asn Thr Val
660 665 670
Thr Ser Ser Gly Asp Leu Val Ala Lys Leu Cys Asp Asn Ile Val Ser
675 680 685
Glu Ser Glu Ser Thr Thr Ala Arg Gln Pro Ser Ser Gln Asp Pro Pro
690 695 700
Asp Ala Ser His Cys Glu Asp Pro Gln Ala His Thr Val Thr Ser Asp
705 710 715 720
Pro Val Arg Asp Thr Gln Glu Arg Ala Asp Phe Cys Pro Phe Lys Val

725	730	735
Val Asp Asn Lys Gly Gln Arg Lys Asp Val Lys Leu Asp Lys Pro Leu		
740	745	750
Thr Asn Met Leu Glu Val Val Ser His Pro His Pro Val Val Pro Lys		
755	760	765
Met Glu Lys Glu Leu Val Pro Asp Gln Ala Val Ile Ser Asp Ser Thr		
770	775	780
Phe Ser Leu Ala Asn Ser Pro Gly Ser Glu Ser Val Thr Lys Asp Asp		
785	790	795
Ala Leu Ser Phe Val Pro Ser Gln Lys Glu Lys Gly Thr Ala Thr Pro		
805	810	815
Glu Leu His Thr Ala Thr Asp Tyr Arg Asp Gly Pro Asp Gly Asn Ser		
820	825	830
Asn Glu Pro Asp Thr Arg Pro Leu Glu Asp Arg Ala Ala Gly Leu Ser		
835	840	845
Thr Ser Ser Thr Ala Ala Glu Leu Gln His Gly Met Gly Asn Thr Ser		
850	855	860
Leu Thr Gly Leu Gly Gly Glu His Glu Gly Pro Ala Pro Pro Ala Ile		
865	870	875
Pro Glu Ala Leu Asn Ile Lys Gly Asn Thr Asp Ser Ser Leu Gln Ser		
885	890	895
Met Gly Lys Ala Thr Leu Ala Leu Asp Ser Val Leu Thr Glu Glu Gly		
900	905	910
Lys Leu Leu Val Val Ser Glu Ser Ser Ala Ala Gln Glu Gln Asp Lys		
915	920	925
Asp Lys Ala Val Thr Cys Ser Ser Ile Lys Glu Asn Ala Leu Ser Ser		
930	935	940
Gly Thr Leu Gln Glu Glu Gln Arg Thr Pro Pro Pro Gly Gln Asp Thr		
945	950	955
		960

Gln Gln Phe His Glu Lys Ser Ile Ser Ala Asp Cys Ala Lys Asp Lys
965 970 975
Ala Leu Gln Leu Ser Asn Ser Pro Gly Ala Ser Ser Ala Phe Leu Lys
980 985 990
Ala Glu Thr Glu His Asn Lys Glu Val Ala Pro Gln Val Ser Leu Leu
995 1000 1005
Thr Gln Gly Gly Ala Ala Gln Ser Leu Val Pro Pro Gly Ala Ser Leu
1010 1015 1020
Ala Thr Glu Ser Arg Gln Glu Ala Leu Gly Ala Glu His Asn Ser Ser
1025 1030 1035 1040
Ala Leu Leu Pro Cys Leu Leu Pro Asp Gly Ser Asp Gly Ser Asp Ala
1045 1050 1055
Leu Asn Cys Ser Gln Ala Ser Pro Leu Asp Val Gly Val Lys Asn Thr
1060 1065 1070
Gln Ser Gln Gly Lys Thr Ser Ala Cys Glu Val Ser Gly Asn Val Thr
1075 1080 1085
Val Asp Val Thr Gly Val Asn Ala Leu Gln Gly Met Ala Glu Pro Arg
1090 1095 1100
Arg Glu Asn Ile Ser His Asn Thr Gln Asp Ile Leu Ile Pro Asn Val
1105 1110 1115 1120
Leu Leu Ser Gln Glu Lys Asn Ala Val Leu Gly Leu Pro Val Ala Leu
1125 1130 1135
Gln Asp Lys Ala Val Thr Asp Pro Gln Gly Val Gly Thr Pro Glu Met
1140 1145 1150
Ile Pro Leu Asp Trp Glu Lys Gly Lys Leu Glu Gly Ala Asp His Ser
1155 1160 1165
Cys Thr Met Gly Asp Ala Glu Glu Ala Gln Ile Asp Asp Glu Ala His
1170 1175 1180
Pro Val Leu Leu Gln Pro Val Ala Lys Glu Leu Pro Thr Asp Met Glu

1185 1190 1195 1200
Leu Ser Ala His Asp Asp Gly Ala Pro Ala Gly Val Arg Glu Val Thr
 1205 1210 1215
Arg Ala Pro Pro Ser Gly Arg Glu Arg Ser Thr Pro Ser Leu Pro Cys
 1220 1225 1230
Met Val Ser Ala Gln Asp Ala Pro Leu Pro Lys Gly Ala Asp Leu Ile
 1235 1240 1245
Glu Glu Ala Ala Ser Arg Ile Val Asp Ala Val Ile Glu Gln Val Lys
 1250 1255 1260
Ala Ala Gly Ala Leu Leu Thr Glu Gly Glu Ala Cys His Met Ser Leu
1265 1270 1275 1280
Ser Ser Pro Glu Leu Gly Pro Leu Thr Lys Gly Leu Glu Ser Ala Phe
 1285 1290 1295
Thr Glu Lys Val Ser Thr Phe Pro Pro Gly Glu Ser Leu Pro Met Gly
 1300 1305 1310
Ser Thr Pro Glu Glu Ala Thr Gly Ser Leu Ala Gly Cys Phe Ala Gly
 1315 1320 1325
Arg Glu Glu Pro Glu Lys Ile Ile Leu Pro Val Gln Gly Pro Glu Pro
 1330 1335 1340
Ala Ala Glu Met Pro Asp Val Lys Ala Glu Asp Glu Val Asp Phe Arg
1345 1350 1355 1360
Ala Ser Ser Ile Ser Glu Glu Val Ala Val Gly Ser Ile Ala Ala Thr
 1365 1370 1375
Leu Lys Met Lys Gln Gly Pro Met Thr Gln Ala Ile Asn Arg Glu Asn
 1380 1385 1390
Trp Cys Thr Ile Glu Pro Cys Pro Asp Ala Ala Ser Leu Leu Ala Ser
 1395 1400 1405
Lys Gln Ser Pro Glu Cys Glu Asn Phe Leu Asp Val Gly Leu Gly Arg
 1410 1415 1420

Glu Cys Thr Ser Lys Gln Gly Val Leu Lys Arg Glu Ser Gly Ser Asp
1425 1430 1435 1440
Ser Asp Leu Phe His Ser Pro Ser Asp Asp Met Asp Ser Ile Ile Phe
1445 1450 1455
Pro Lys Pro Glu Glu Glu His Leu Ala Cys Asp Ile Thr Gly Ser Ser
1460 1465 1470
Ser Ser Thr Asp Asp Thr Ala Ser Leu Asp Arg His Ser Ser His Gly
1475 1480 1485
Ser Asp Val Ser Leu Ser Gln Ile Leu Lys Pro Asn Arg Ser Gly Asp
1490 1495 1500
Arg Gln Ser Leu Asp Gly Phe Tyr Ser His Gly Met Gly Ala Glu Gly
1505 1510 1515 1520
Arg Glu Ser Glu Ser Glu Pro Ala Asp Pro Gly Asp Val Glu Glu Glu
1525 1530 1535
Glu Met Asp Ser Ile Thr Glu Val Pro Ala Asn Cys Ser Val Leu Arg
1540 1545 1550
Ser Ser Met Arg Ser Leu Ser Pro Phe Arg Arg His Ser Trp Gly Pro
1555 1560 1565
Gly Lys Asn Ala Ala Ser Asp Ala Glu Met Asn His Arg Ser Phe Ser
1570 1575 1580
Leu Glu Gly Leu Thr Gly Gly Ala Gly Val Gly Asn Lys Pro Ser Ser
1585 1590 1595 1600
Ser Leu Glu Val Ser Ser Ala Asn Ala Glu Glu Leu Arg His Pro Phe
1605 1610 1615
Ser Gly Glu Glu Arg Val Asp Ser Leu Val Ser Leu Ser Glu Glu Asp
1620 1625 1630
Leu Glu Ser Asp Gln Arg Glu His Arg Met Phe Asp Gln Gln Ile Cys
1635 1640 1645
His Arg Ser Lys Gln Gln Gly Phe Asn Tyr Cys Thr Ser Ala Ile Ser

1650 1655 1660
 Ser Pro Leu Thr Lys Ser Ile Ser Leu Met Thr Ile Ser His Pro Gly
 1665 1670 1675 1680
 Leu Asp Asn Ser Arg Pro Phe His Ser Thr Phe His Asn Thr Ser Ala
 1685 1690 1695
 Asn Leu Thr Glu Ser Ile Thr Glu Glu Asn Tyr Asn Phe Leu Pro His
 1700 1705 1710
 Ser Pro Ser Lys Lys Asp Ser Glu Trp Lys Ser Gly Thr Lys Val Ser
 1715 1720 1725
 Arg Thr Phe Ser Tyr Ile Lys Asn Lys Met Ser Ser Ser Lys Lys Ser
 1730 1735 1740
 Lys
 1745

<210> 3209

<211> 586

<212> PRT

<213> Homo sapiens

<400> 3209

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly Lys
 1 5 10 15
 Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys Gly Leu
 20 25 30
 Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile Asp Ala Gly
 35 40 45
 Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly
 50 55 60

Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile
65 70 75 80
Asn Leu Tyr Lys Asp Asn Asn Ile Thr Thr Gly Lys Ile Tyr Gln His
85 90 95
Val Ile Asn Lys Glu Arg Arg Gly Asp Tyr Leu Gly Lys Thr Val Gln
100 105 110
Val Val Pro His Ile Thr Asp Ala Val Gln Glu Trp Val Met Asn Gln
115 120 125
Ala Lys Val Pro Val Asp Gly Asn Lys Glu Glu Pro Gln Ile Cys Val
130 135 140
Ile Glu Leu Gly Gly Thr Ile Gly Asp Ile Glu Gly Met Pro Phe Val
145 150 155 160
Glu Ala Phe Arg Gln Phe Gln Phe Lys Ala Lys Arg Glu Asn Phe Cys
165 170 175
Asn Ile His Val Ser Leu Val Pro Gln Leu Ser Ala Thr Gly Glu Gln
180 185 190
Lys Thr Lys Pro Thr Gln Asn Ser Val Arg Ala Leu Arg Gly Leu Gly
195 200 205
Leu Ser Pro Asp Leu Ile Val Cys Arg Ser Ser Thr Pro Ile Glu Met
210 215 220
Ala Val Lys Glu Lys Ile Ser Met Phe Cys His Val Asn Pro Glu Gln
225 230 235 240
Val Ile Cys Ile His Asp Val Ser Ser Thr Tyr Arg Val Pro Val Leu
245 250 255
Leu Glu Glu Gln Ser Ile Val Lys Tyr Phe Lys Glu Arg Leu His Leu
260 265 270
Pro Ile Gly Asp Ser Ala Ser Asn Leu Leu Phe Lys Trp Arg Asn Met
275 280 285
Ala Asp Arg Tyr Glu Arg Leu Gln Lys Ile Cys Ser Ile Ala Leu Val

290	295	300
Gly Lys Tyr Thr Lys Leu Arg Asp Cys Tyr Ala Ser Val Phe Lys Ala		
305	310	315
Leu Glu His Ser Ala Leu Ala Ile Asn His Lys Leu Asn Leu Met Tyr		
325	330	335
Ile Asp Ser Ile Asp Leu Glu Lys Ile Thr Glu Thr Glu Asp Pro Val		
340	345	350
Lys Phe His Glu Ala Trp Gln Lys Leu Cys Lys Ala Asp Gly Ile Leu		
355	360	365
Val Pro Gly Gly Phe Gly Ile Arg Gly Thr Leu Gly Lys Leu Gln Ala		
370	375	380
Ile Ser Trp Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu		
385	390	395
Gly Met Gln Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu		
405	410	415
Lys Asp Ala Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu		
420	425	430
Val Ile Asp Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met		
435	440	445
Arg Leu Gly Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu		
450	455	460
Arg Lys Leu Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His		
465	470	475
Arg Phe Glu Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp		
485	490	495
Leu Ser Phe Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile		
500	505	510
Glu Leu Ala Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu		
515	520	525

Phe Ser Ser Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu
 530 535 540
 Leu Ala Ala Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys
 545 550 555 560
 Leu Ser Ser Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser
 565 570 575
 Glu Pro Arg Ile Ala Glu Leu Glu Ile Ser
 580 585

<210> 3210

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3210

Met Ala Arg Val His Ile Trp Pro Gln His Thr Ala Val Asn Pro Arg
 1 5 10 15
 Leu Leu Glu Asn Gln Ala Arg Ala Met Ile His His His Leu Met Ala
 20 25 30
 Ala Thr Pro Ala Val Phe Leu Val Ser Ser Gly Pro Asp Gly Ser Gln
 35 40 45
 Ala Lys Ala Ala Ala Ala Ser Tyr Leu Ala Glu Pro Pro Gly Ser Pro
 50 55 60
 Thr Pro Gly Pro Phe Ser Tyr Thr Lys Ala Ser Val Val Leu Phe Leu
 65 70 75 80
 Pro Asn Pro Arg Pro Asn Ile Phe Lys Leu His Ser Lys Glu Gln Leu
 85 90 95
 Ala Glu Cys His Gln Tyr Leu Gln Ser Asn Met Arg Trp Asp Phe Ser